

Fig. 1

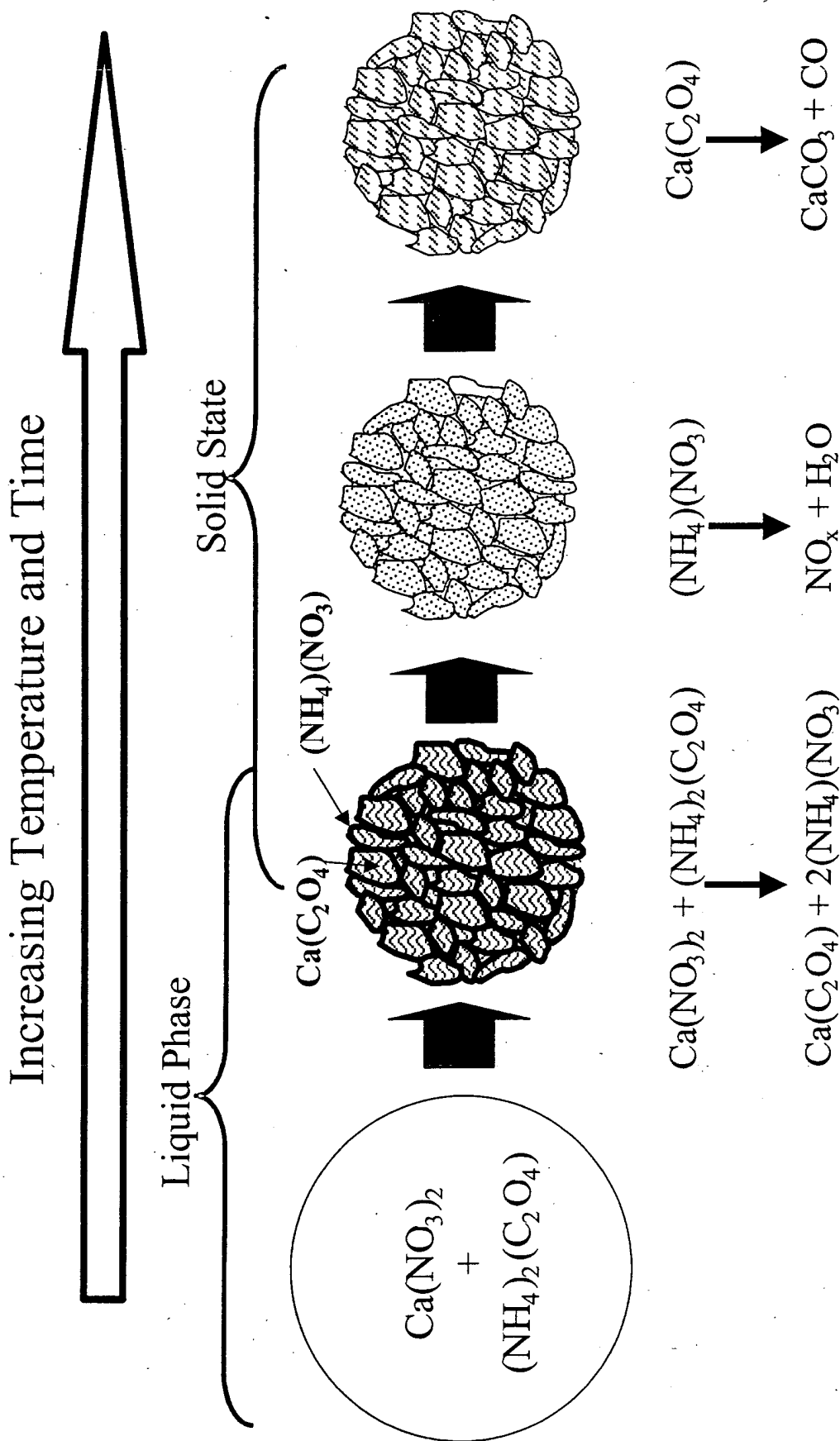


Fig. 2

Post Processing Temperature and Time

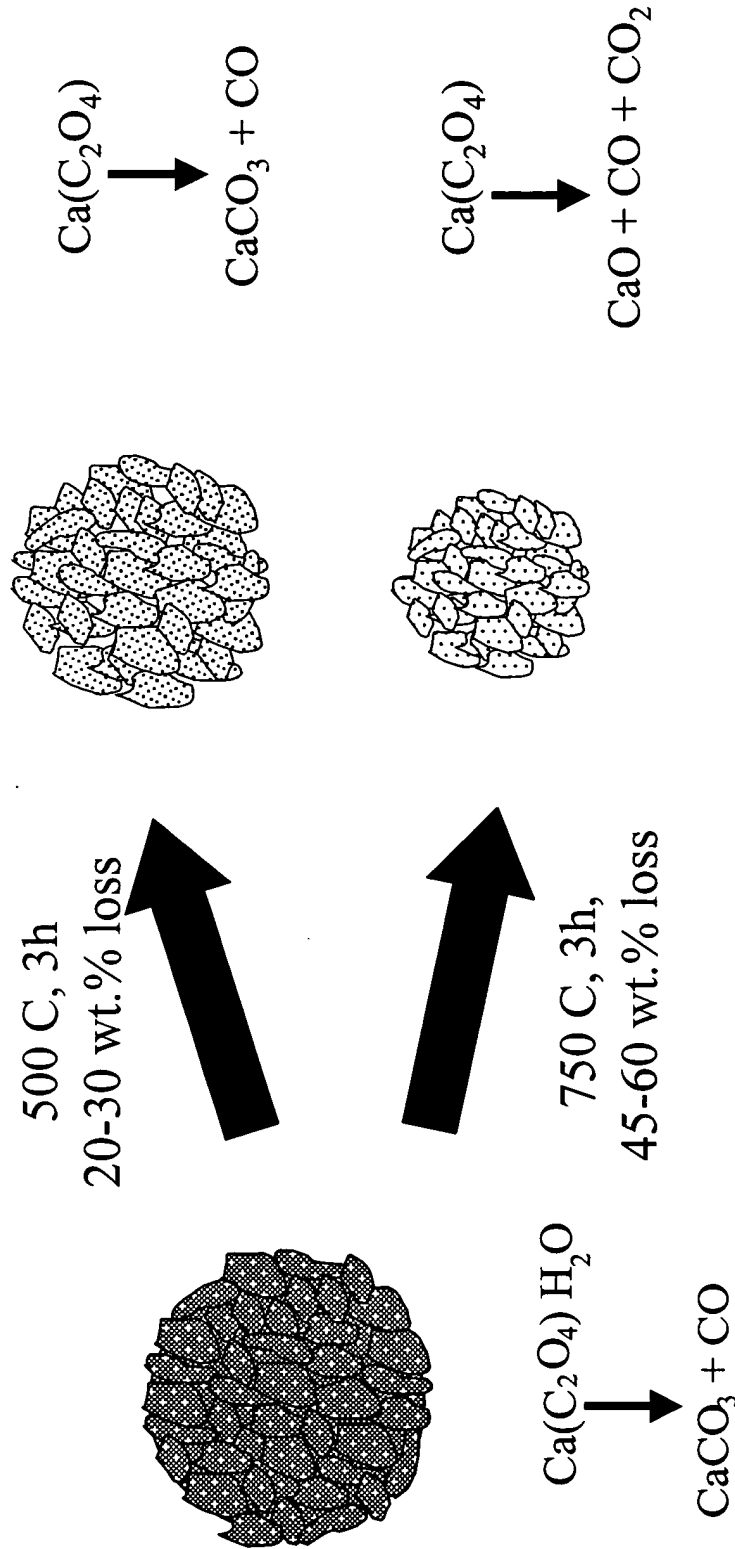


Fig. 3

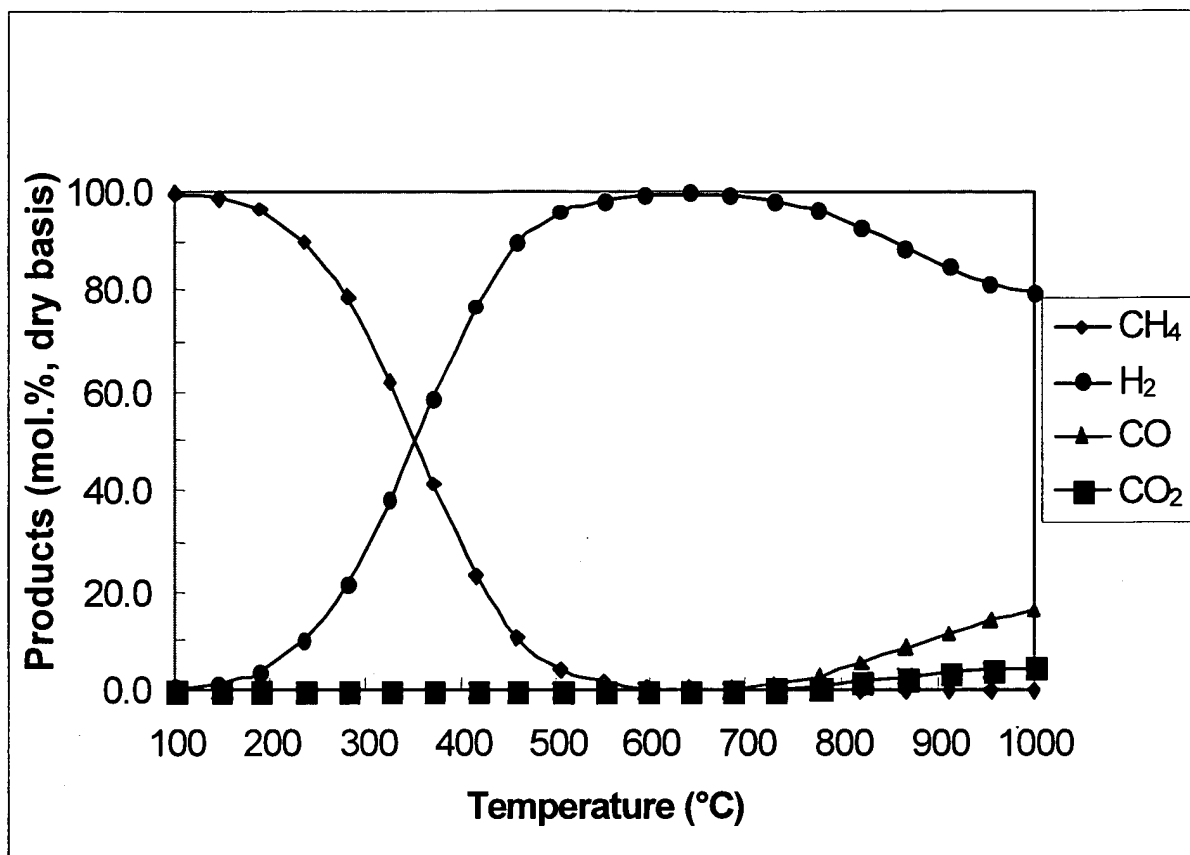


Fig. 4

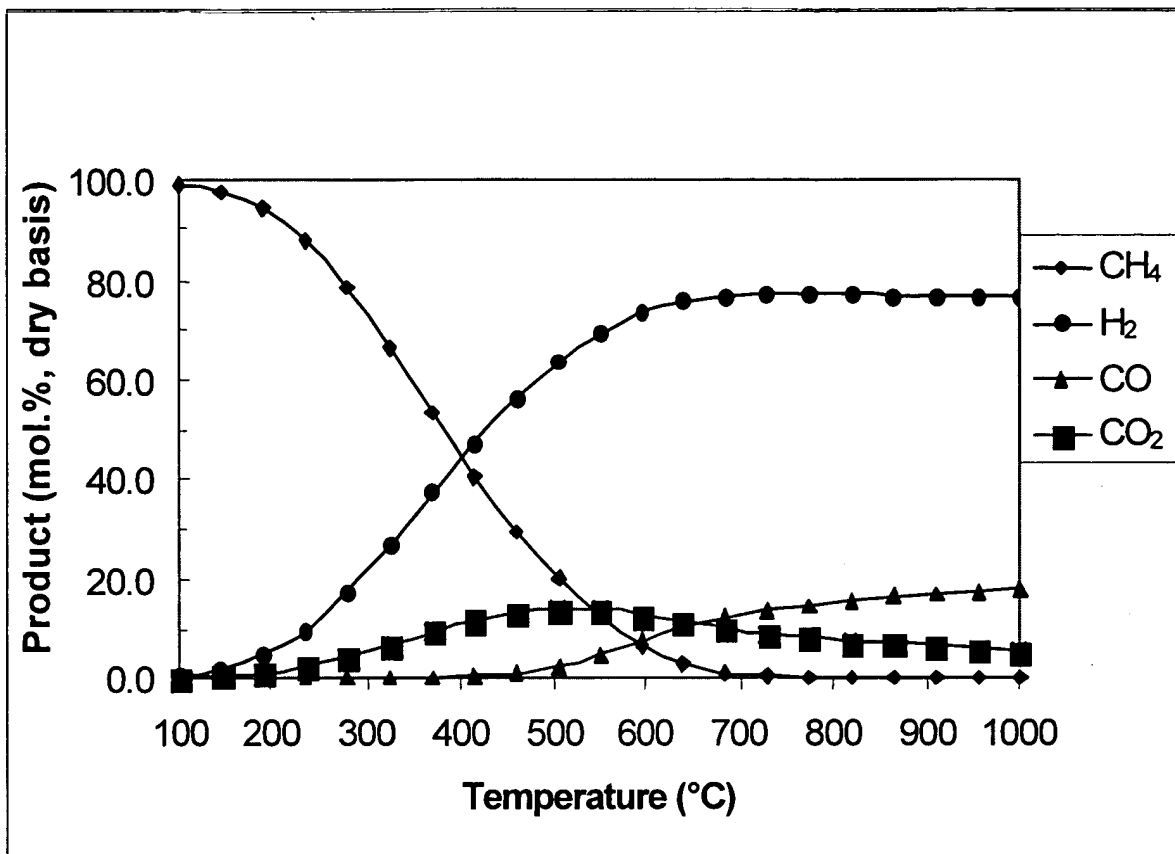


Fig. 5

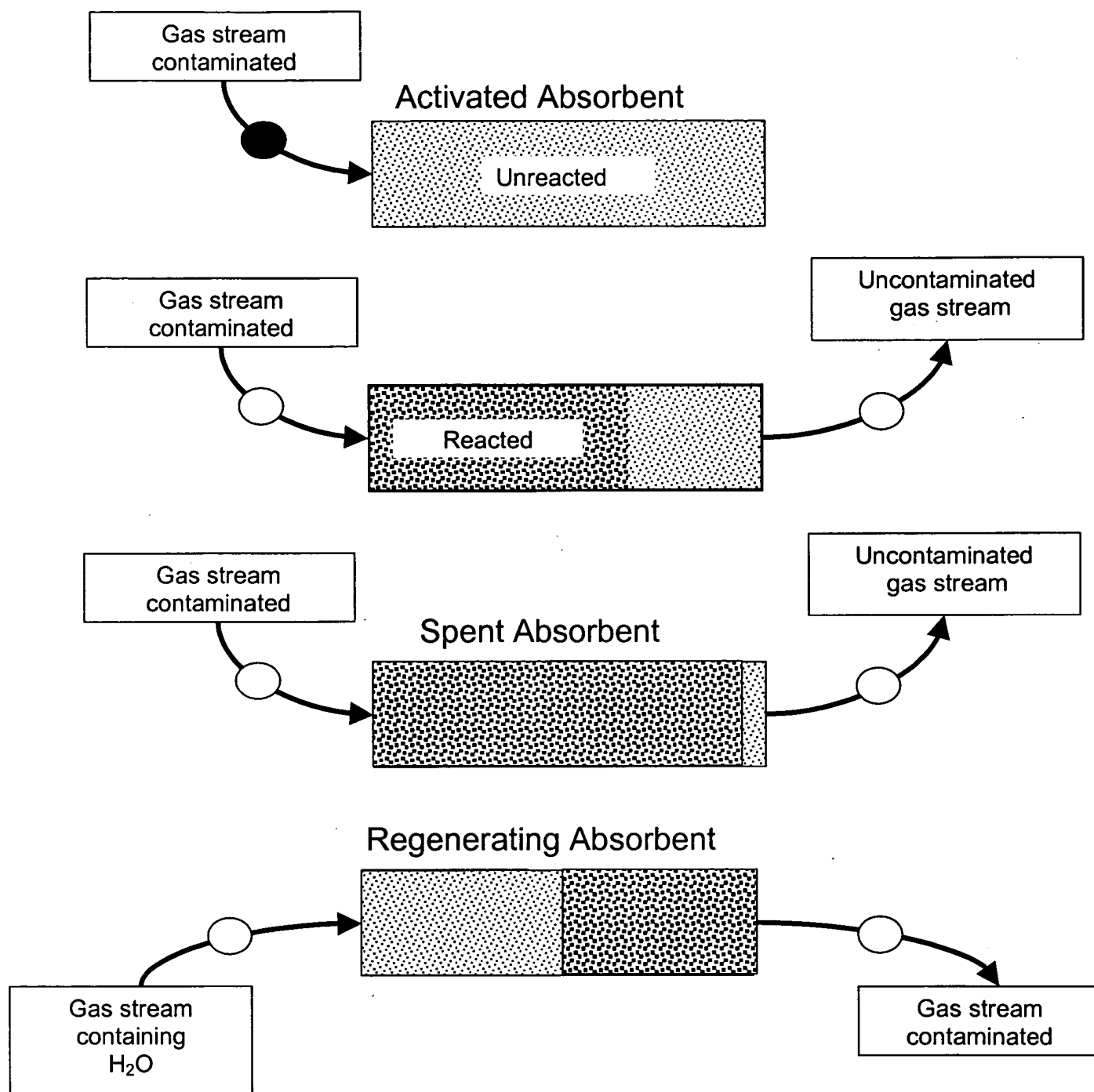


Fig. 6

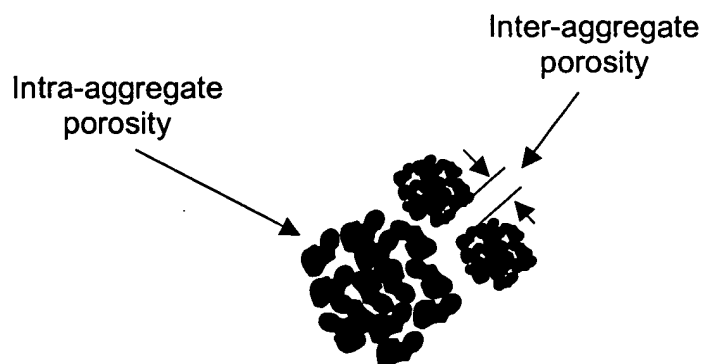


Fig. 7

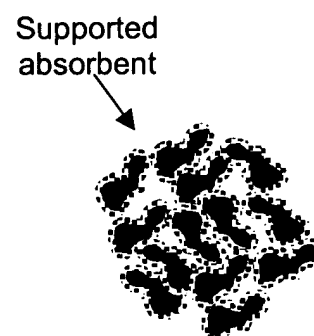


Fig. 9

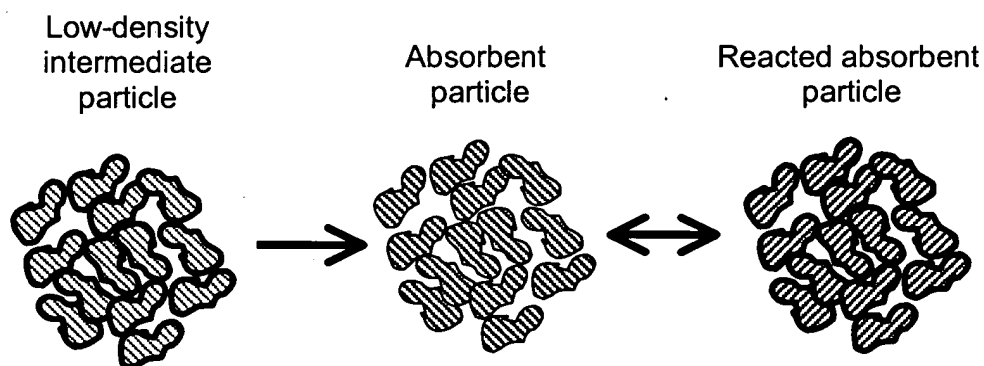


Fig. 10

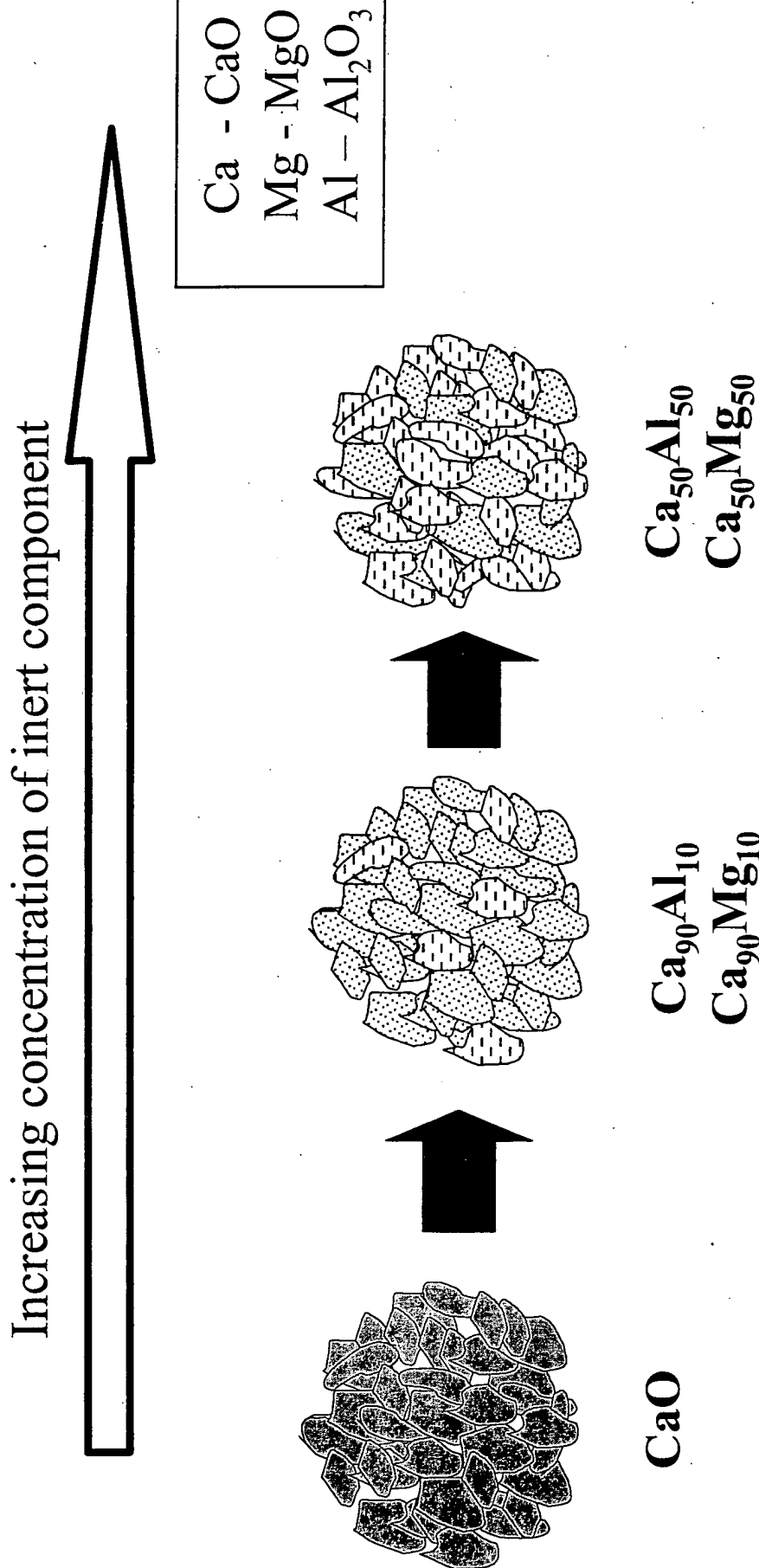


Fig. 8

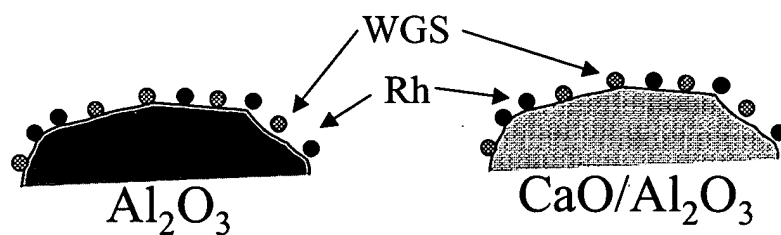


Fig. 11

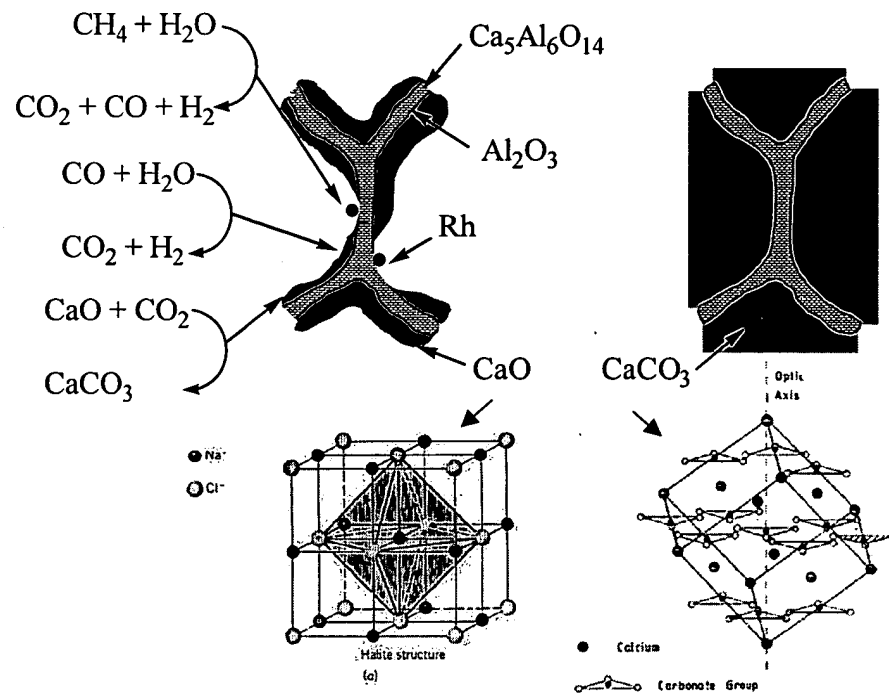


Fig. 12

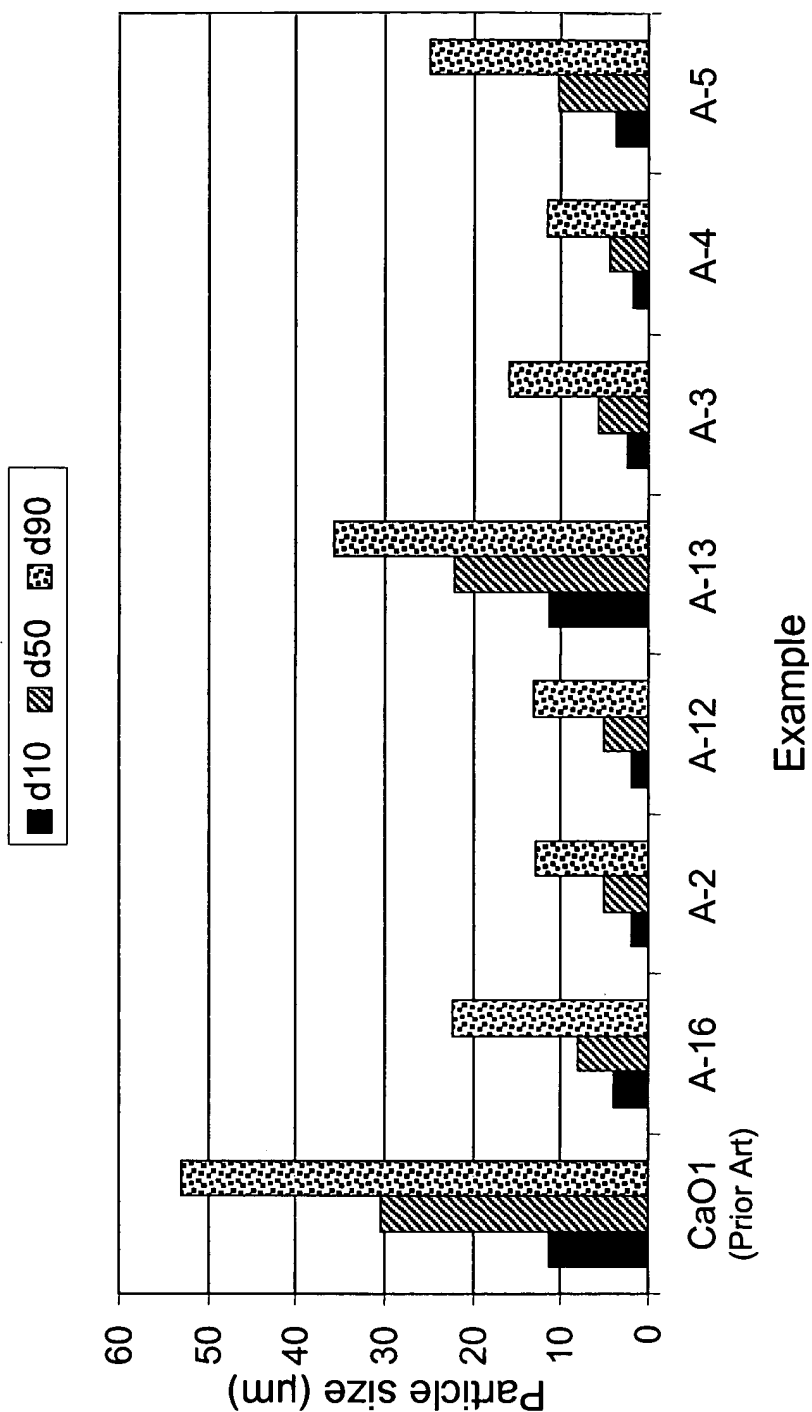


Fig. 13

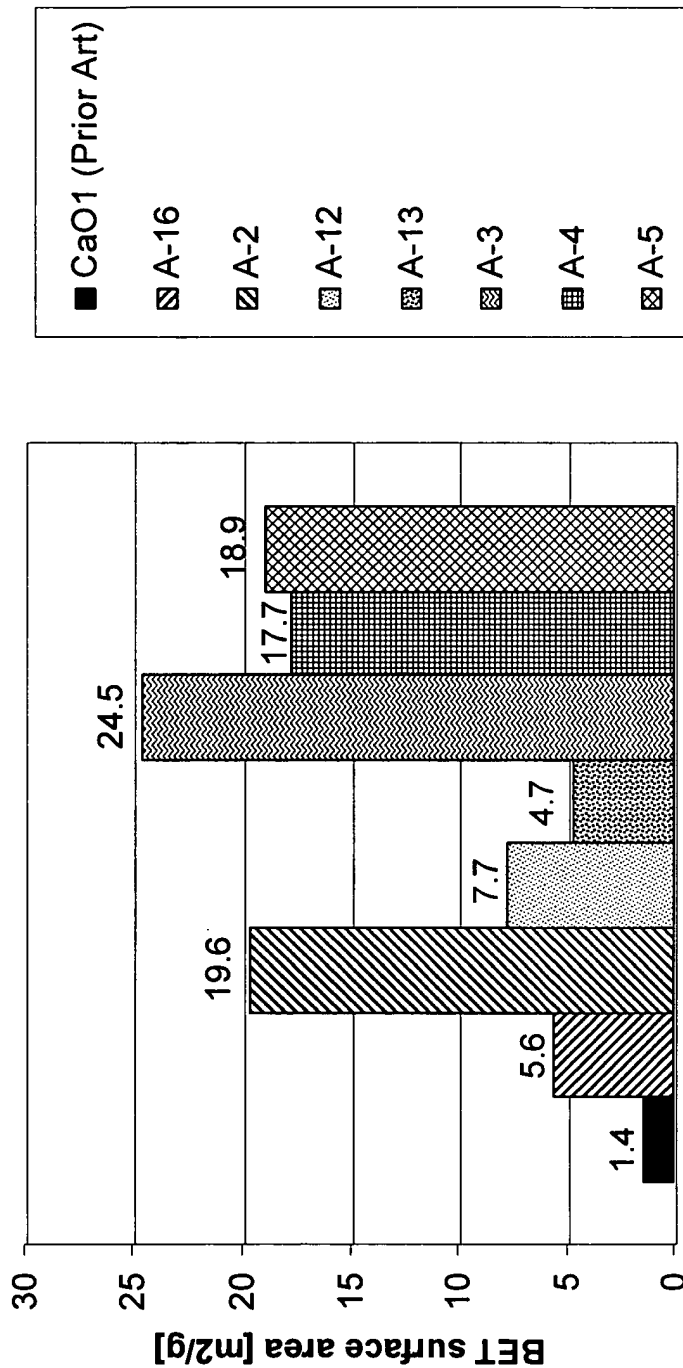


Fig. 14

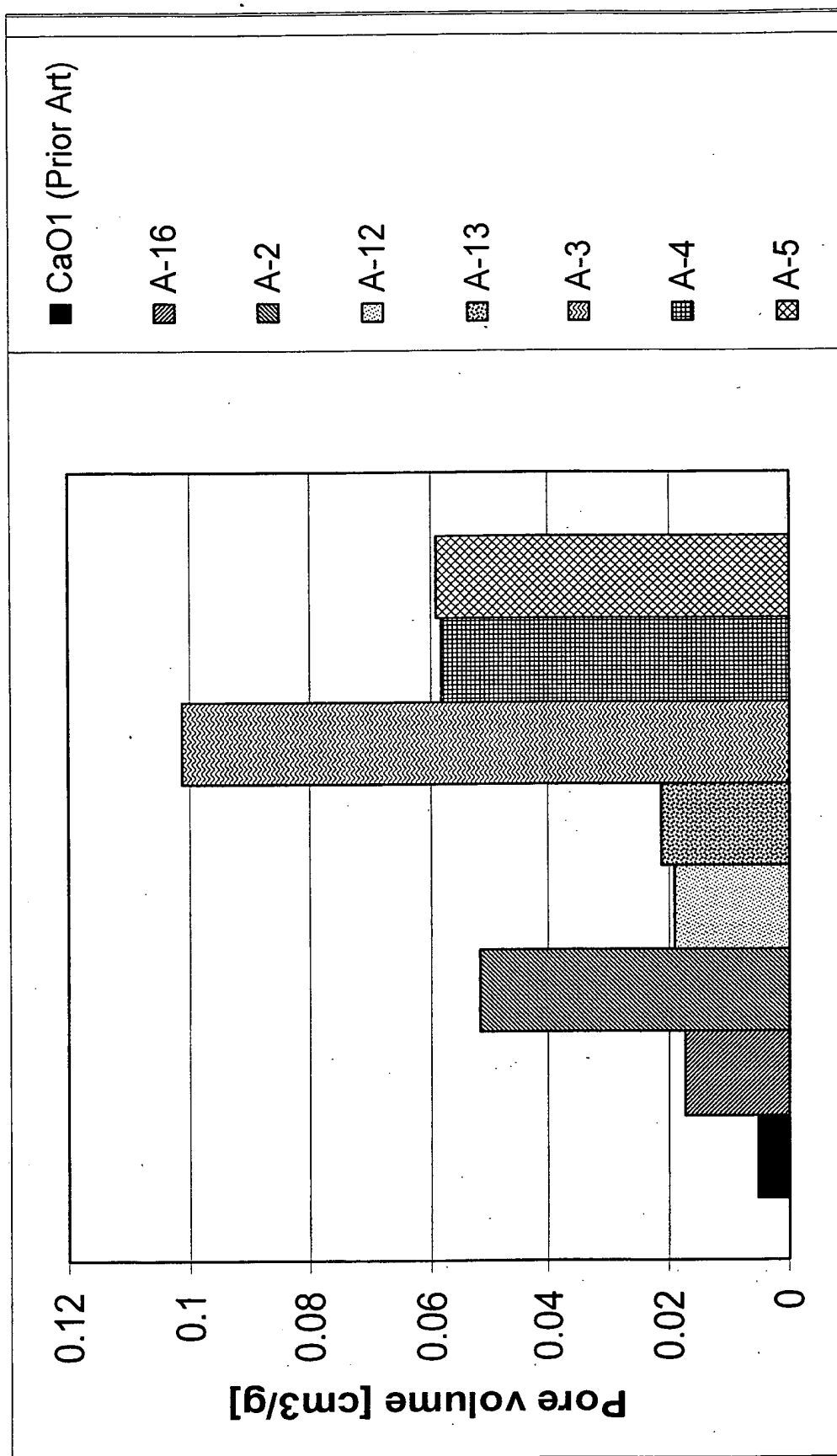


Fig. 15

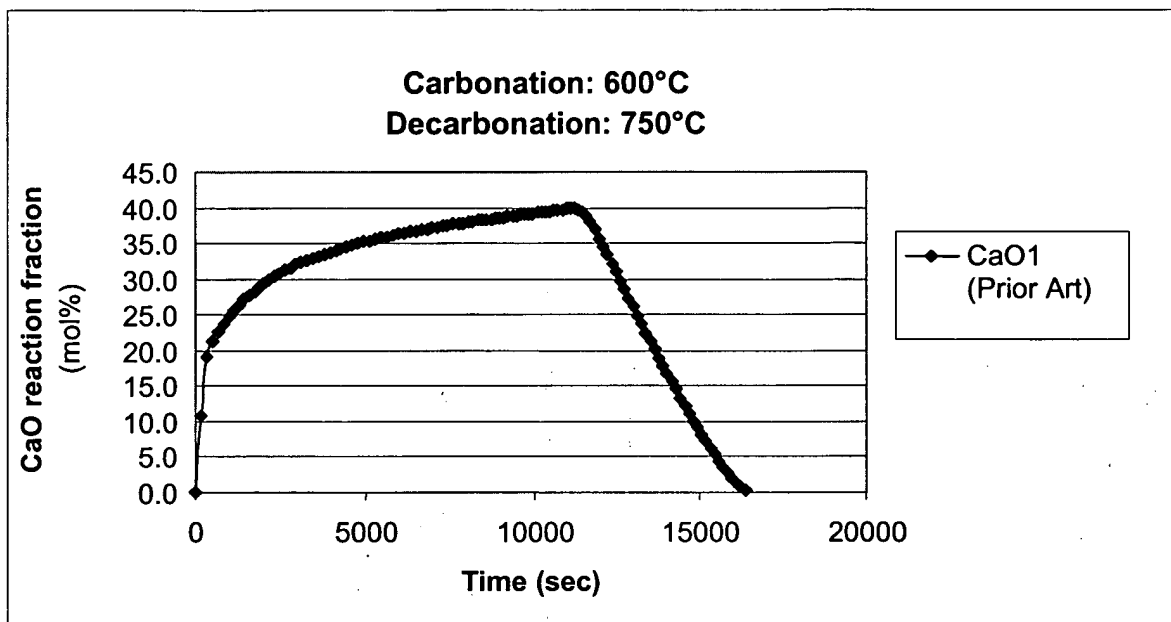


Fig. 16

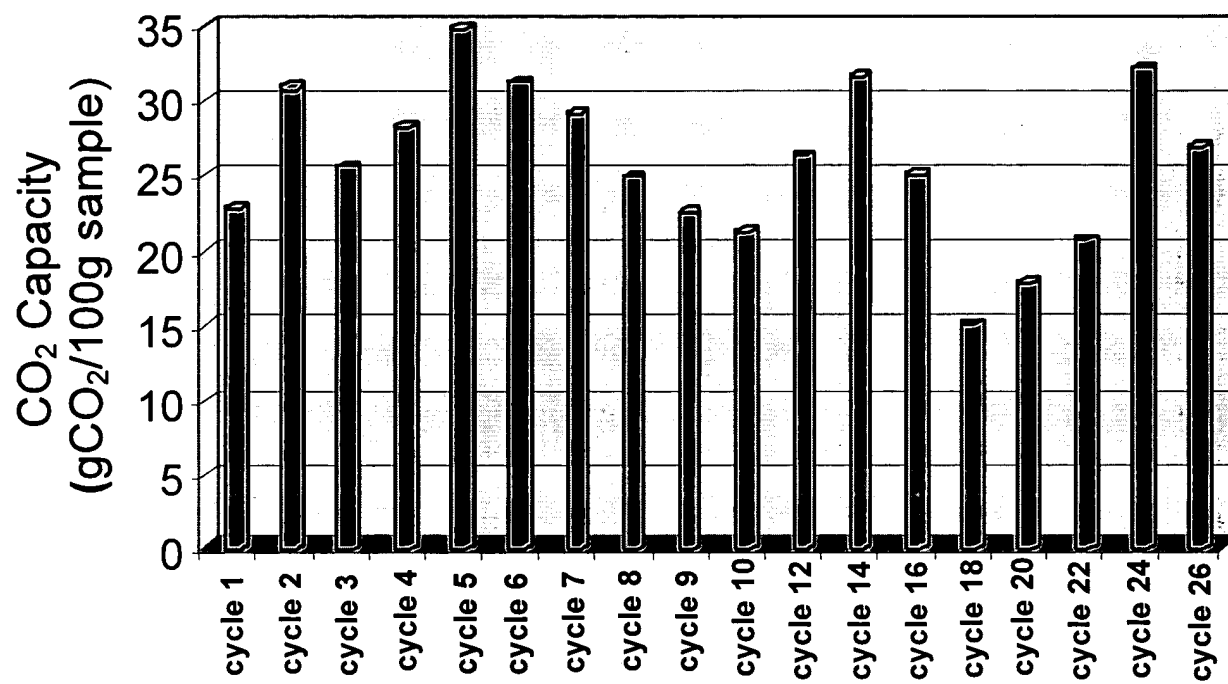


Fig. 17

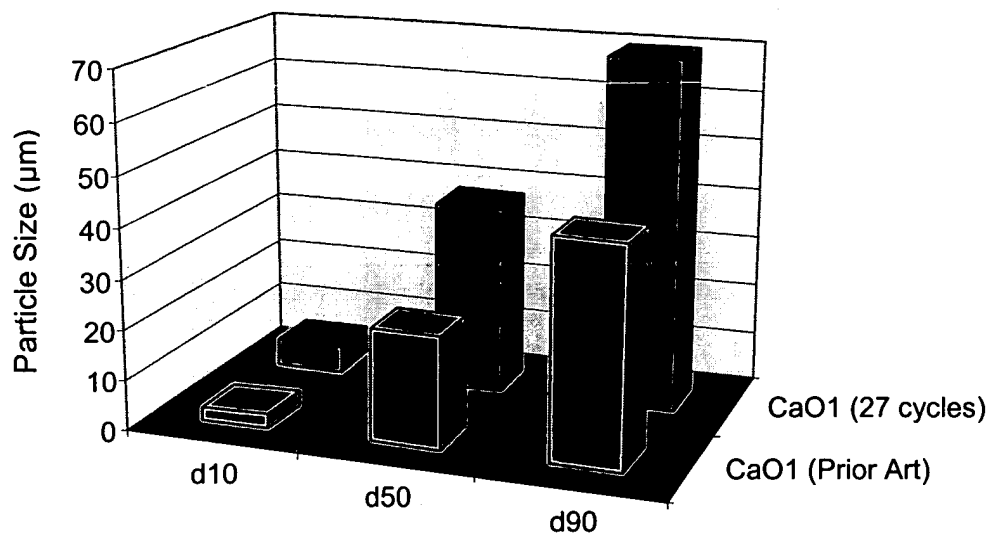


Fig. 18

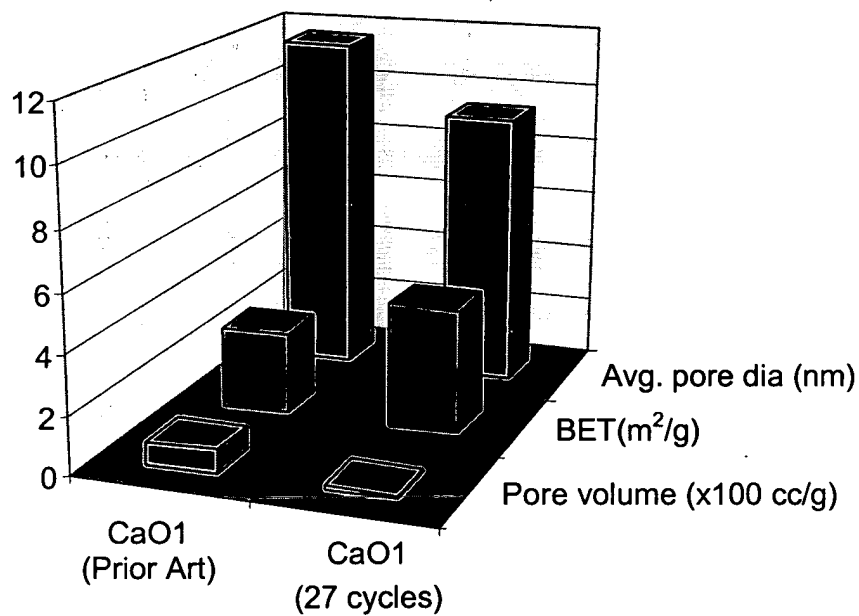


Fig. 19

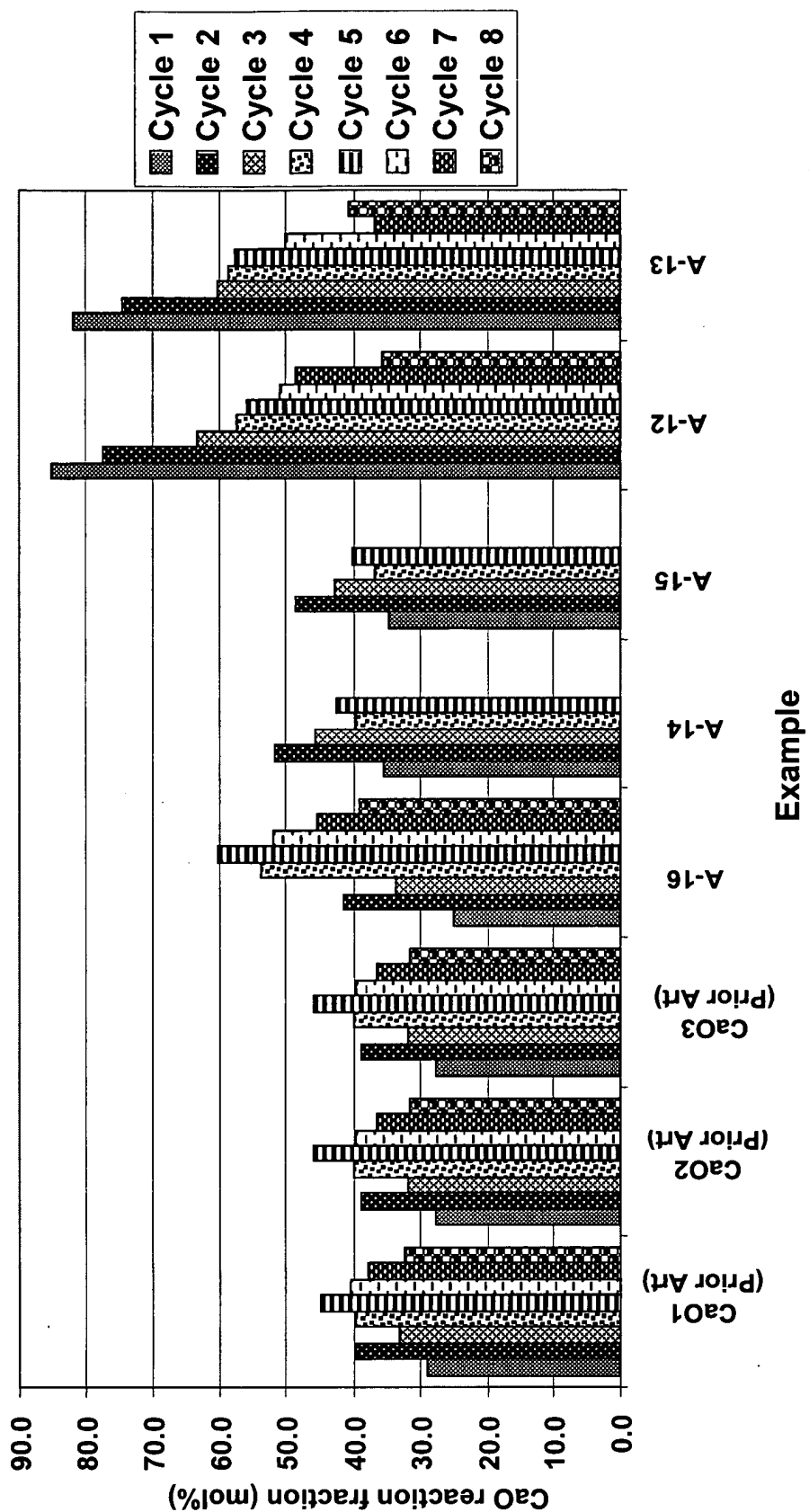


Fig. 20

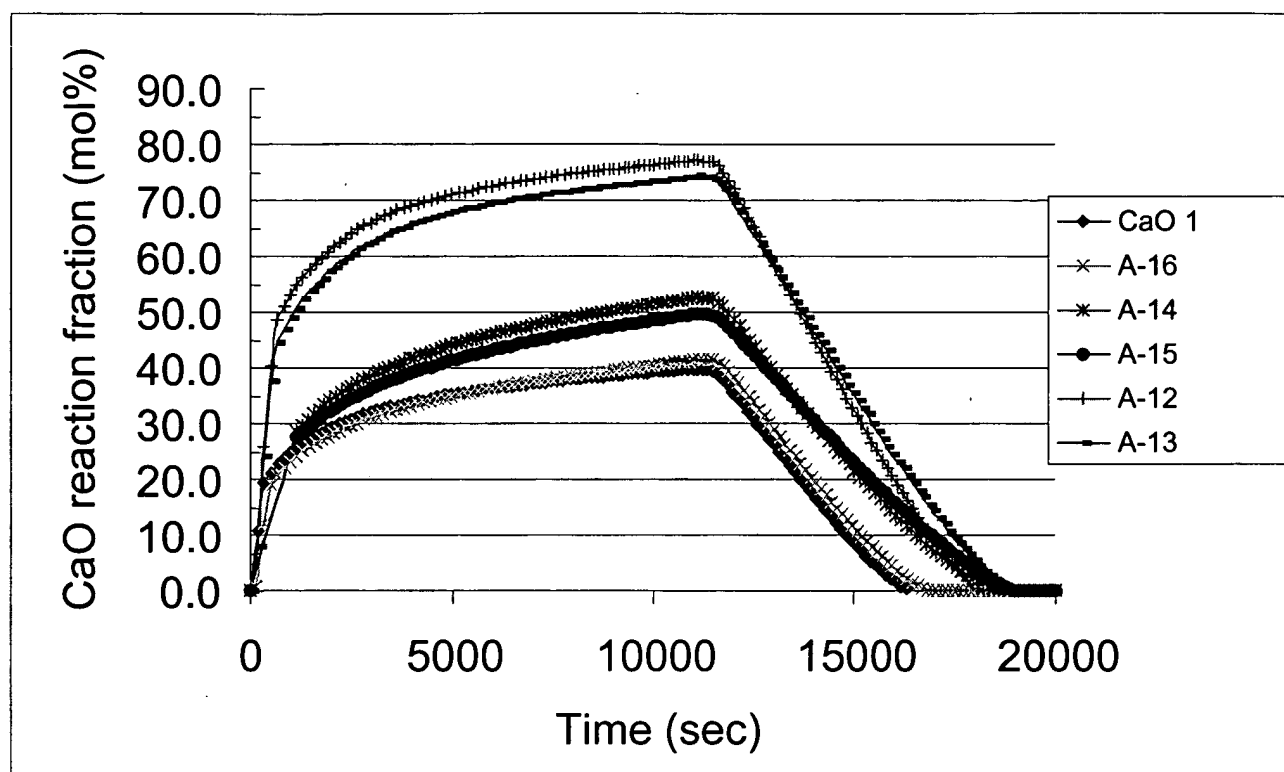


Fig. 21

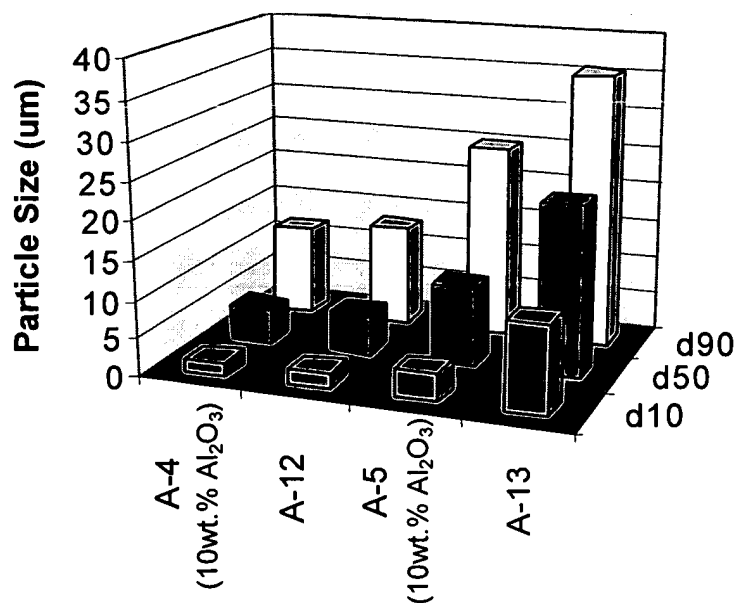


Fig. 22

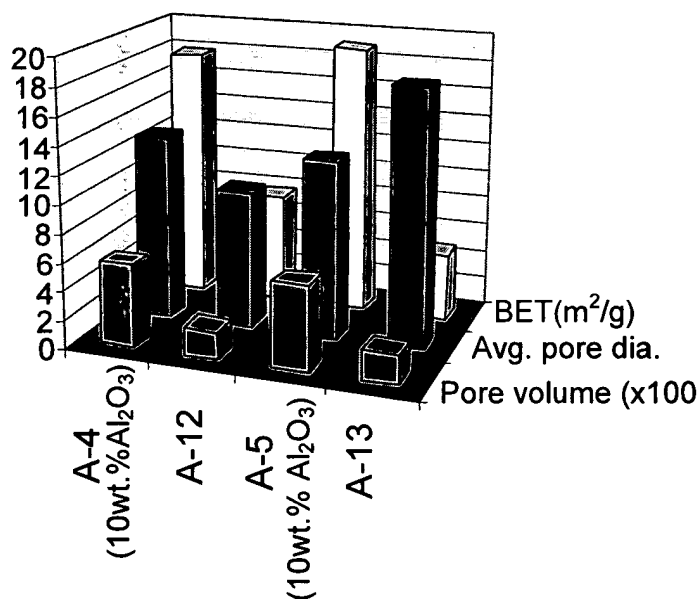


Fig. 23

Serial No.: Not Yet Assigned
 Title: Fuel Reformer Catalyst And Absorbent Materials
 Applicant: Hampden-Smith et al.
 Docket No.: 41890-01626
 Express Mail No.: EV338035435 US
 Attorney: David F. Dockery - Tel: (303) 338-0997

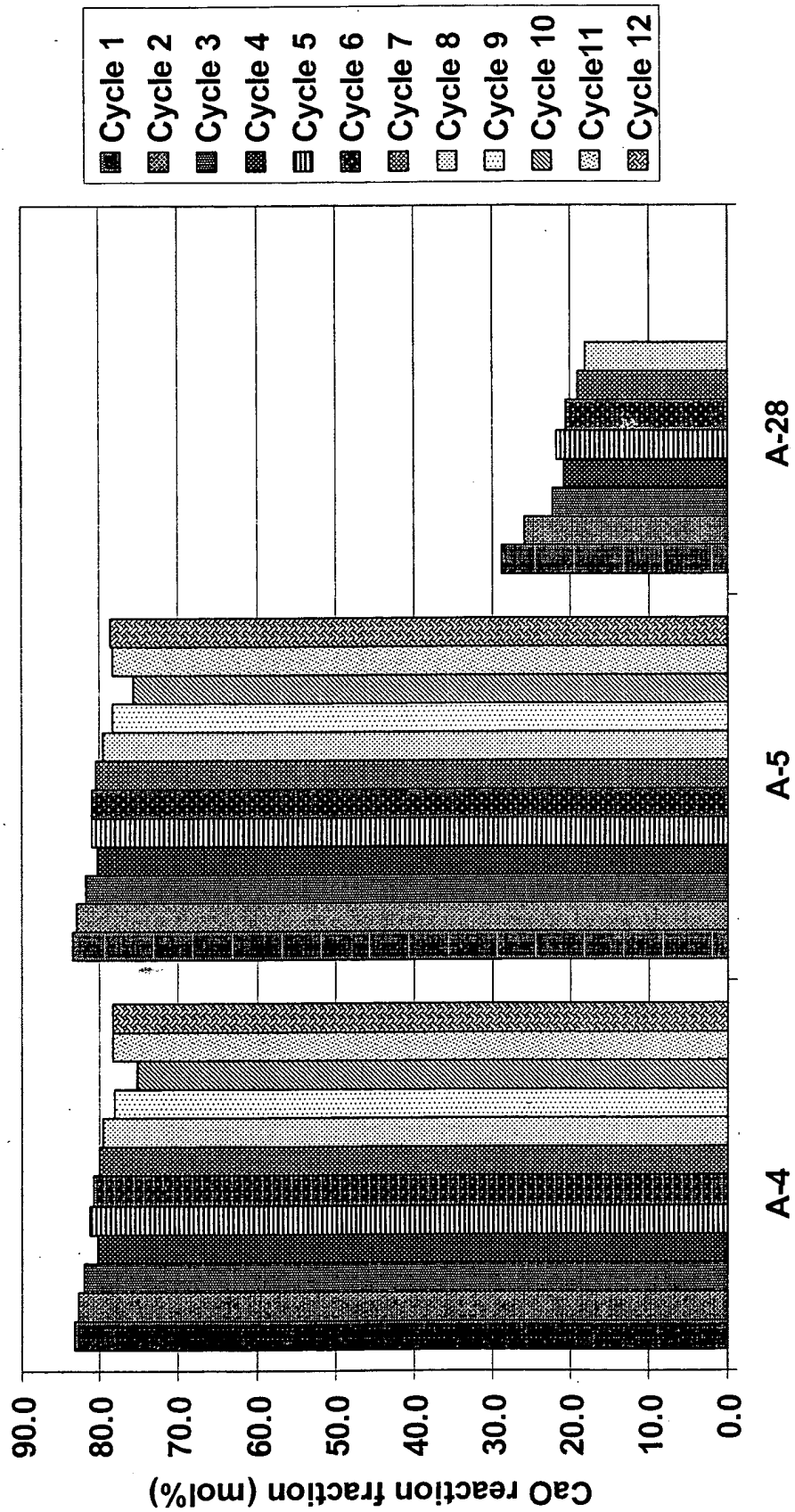
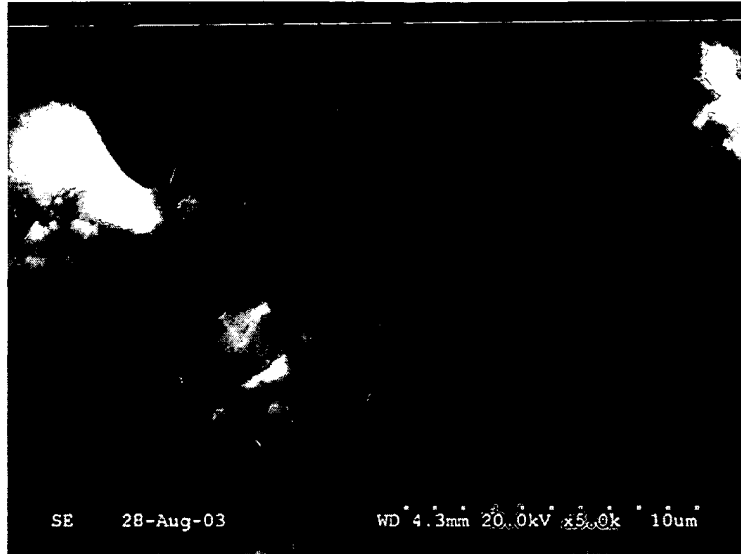
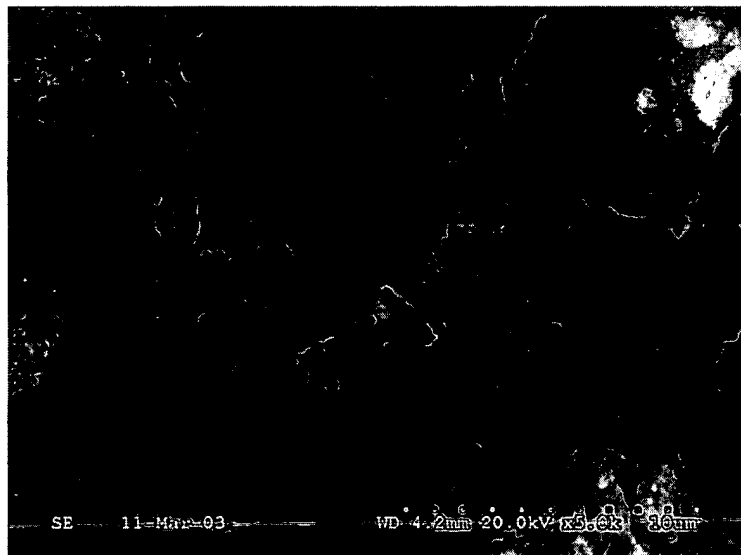


Fig- 24

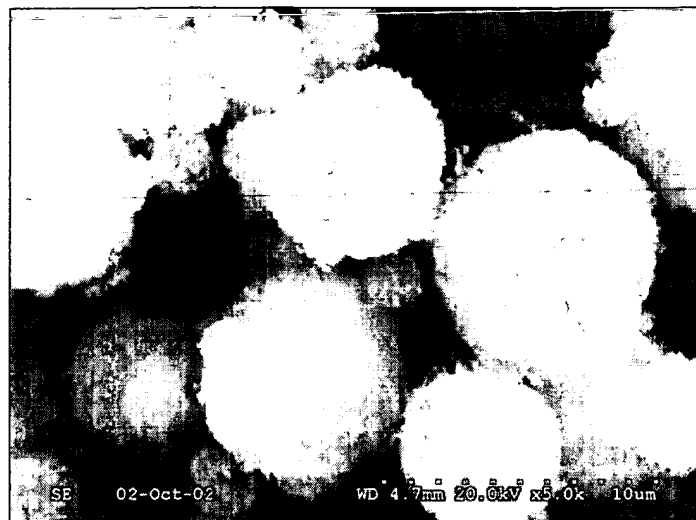


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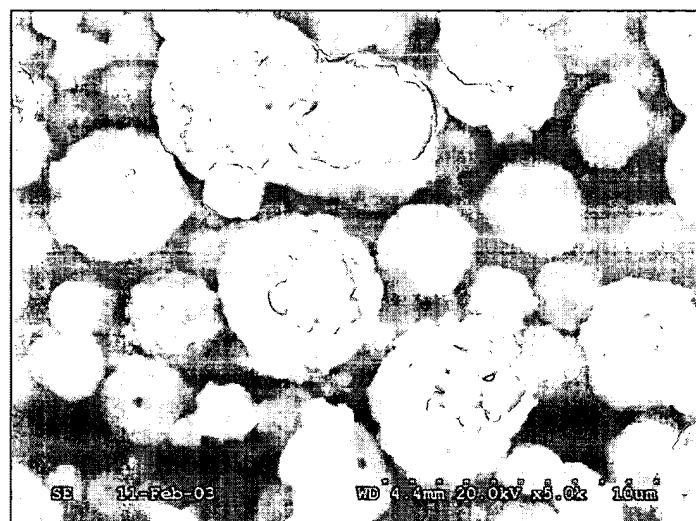


(b)

Fig. 25

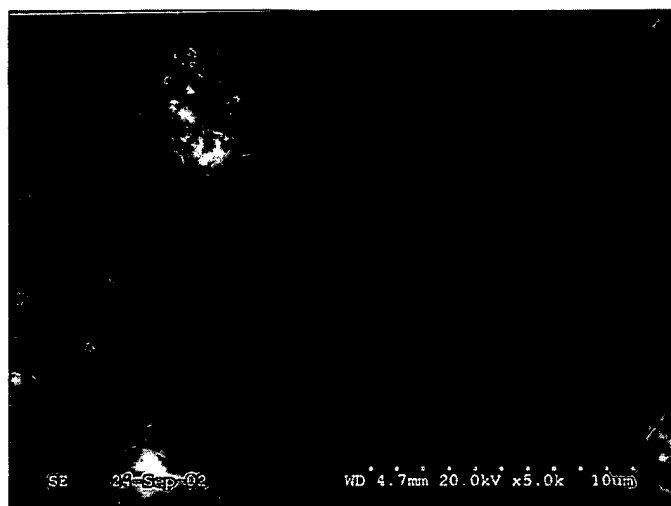


(a)

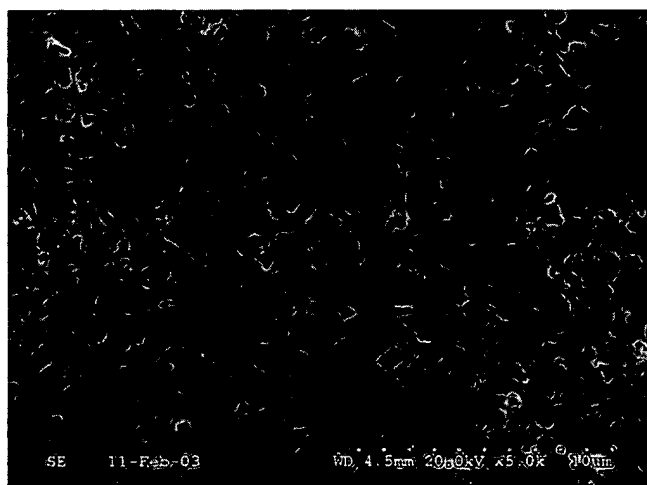


(b)

Fig. 26



(a)



(b)

Fig. 27

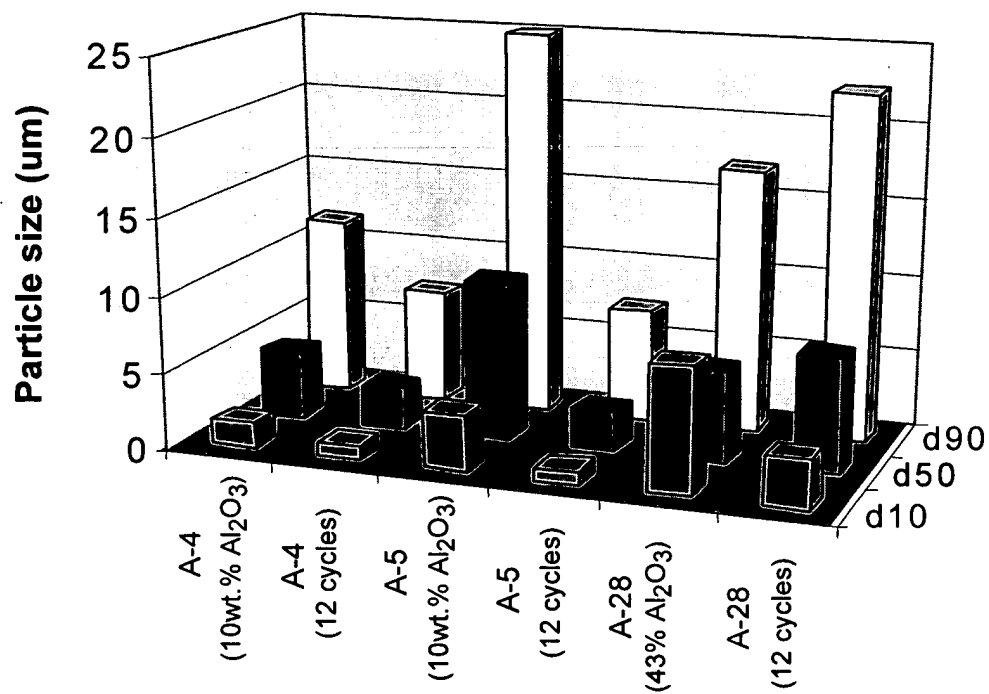


Fig. 28

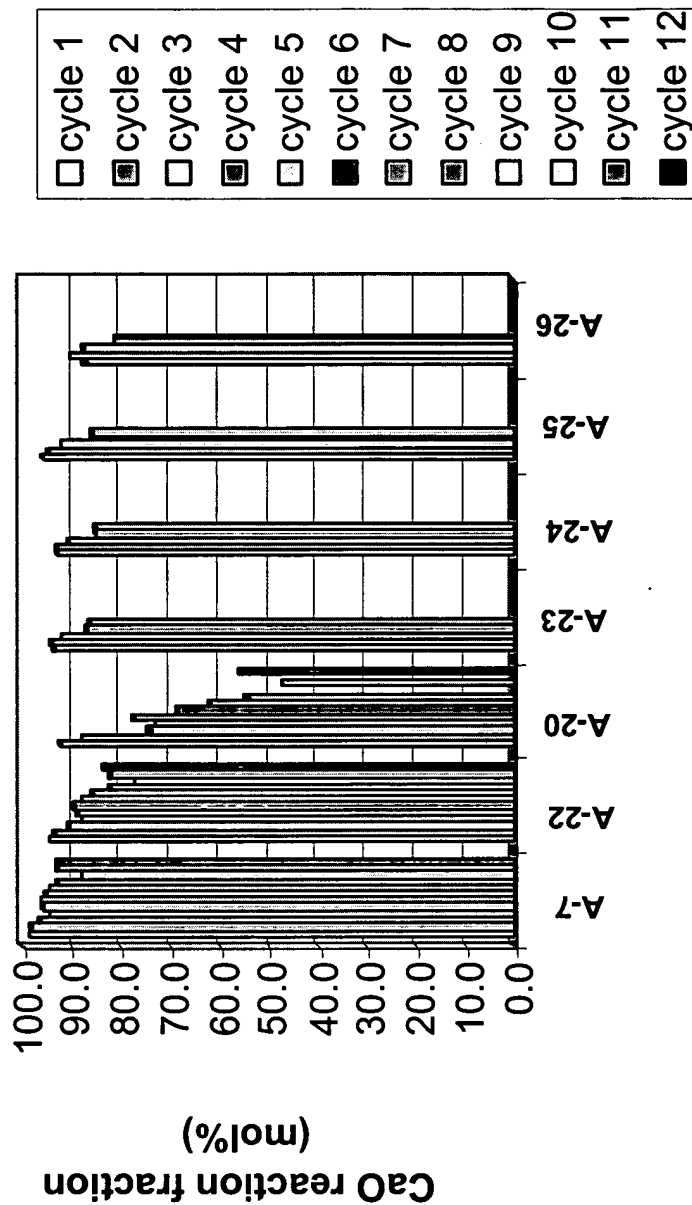


Fig. 29

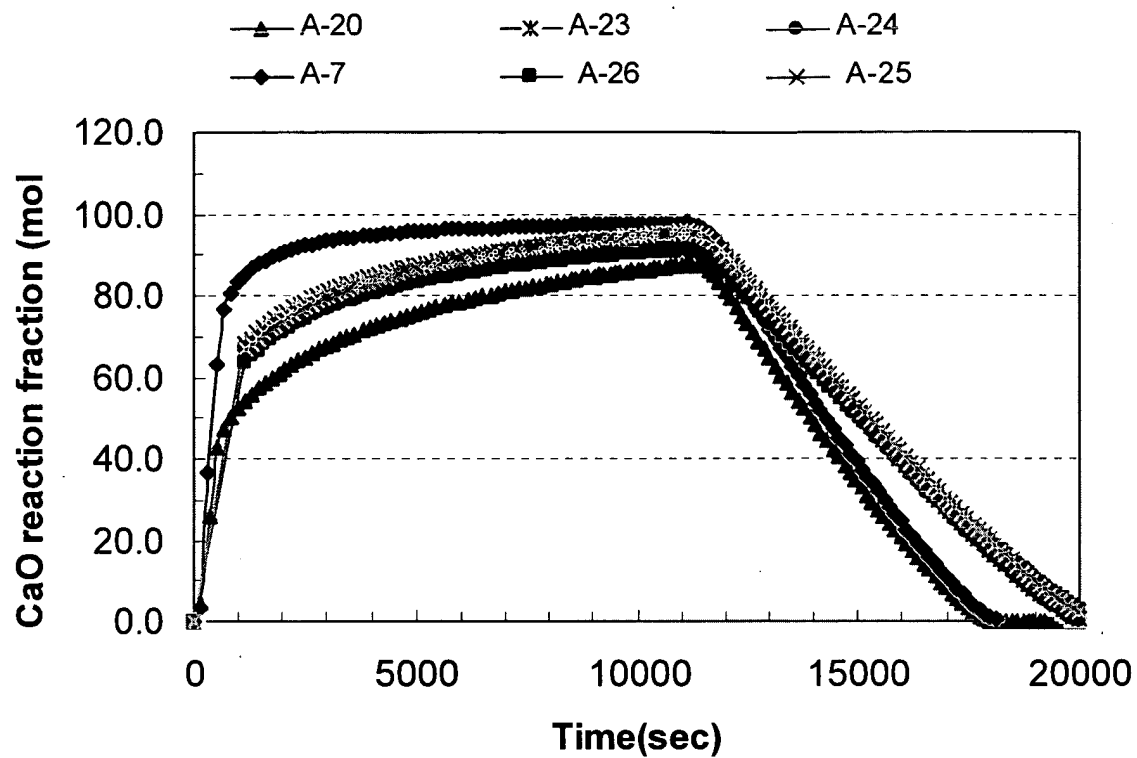


Fig. 30

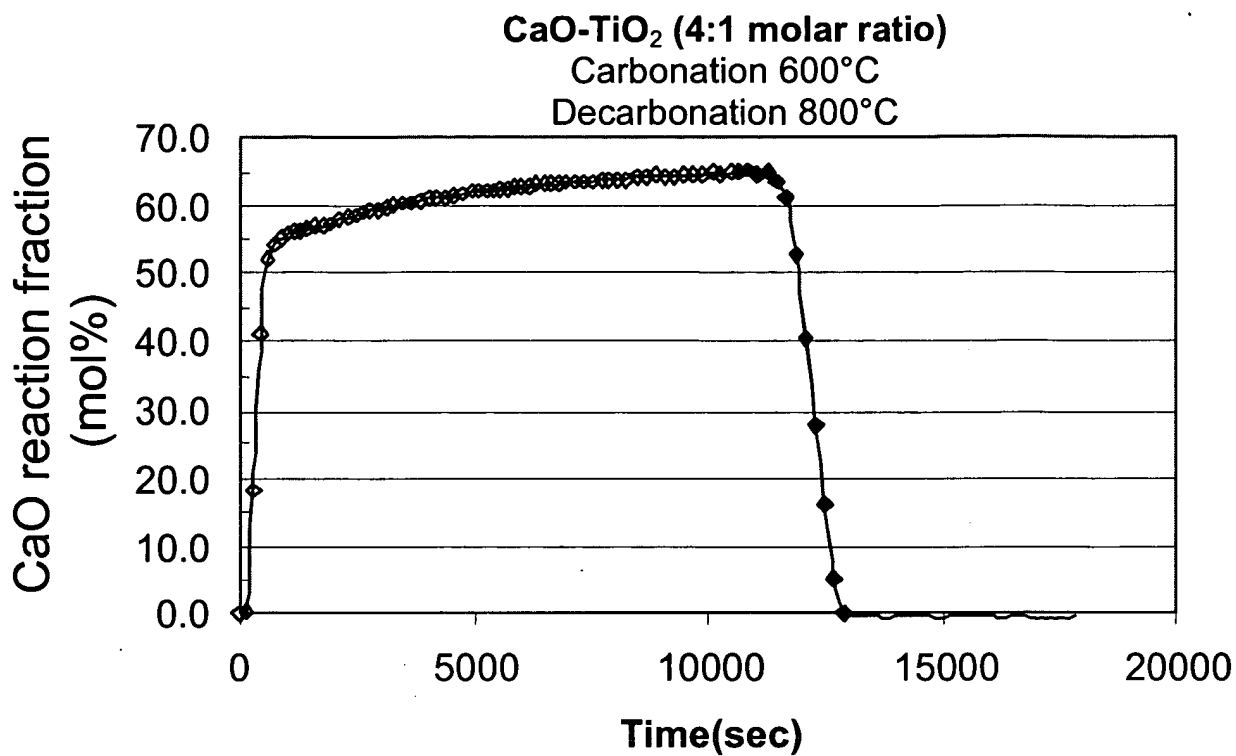


Fig. 31

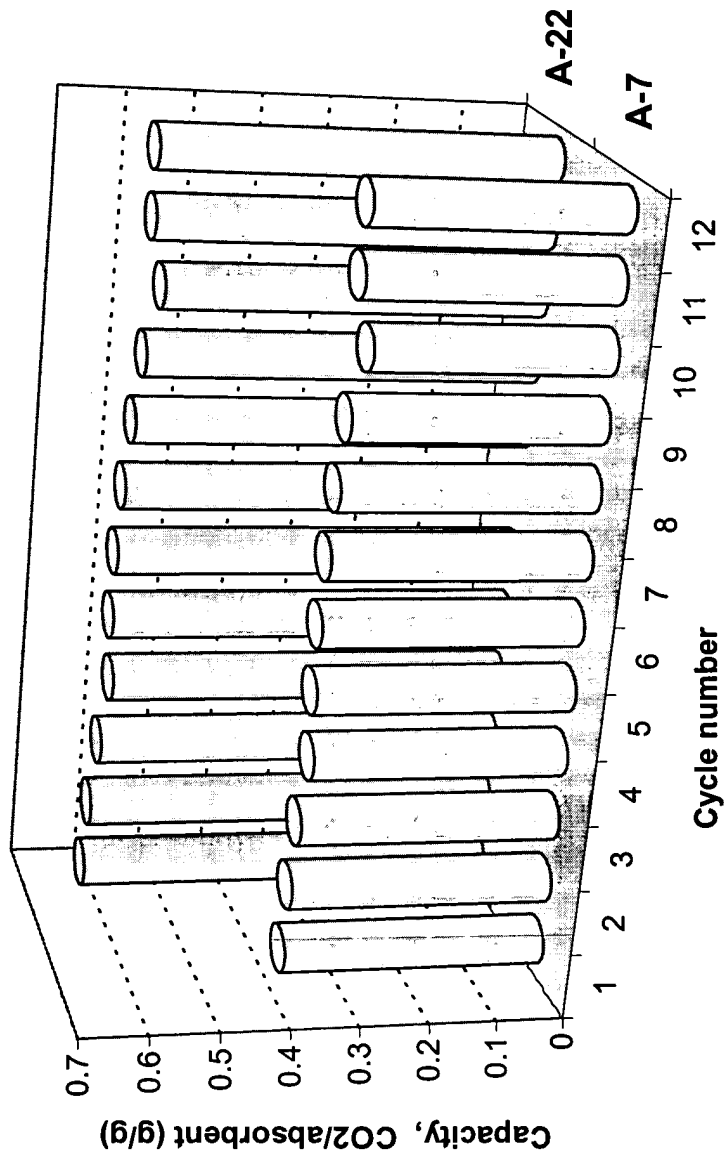


Fig. 32

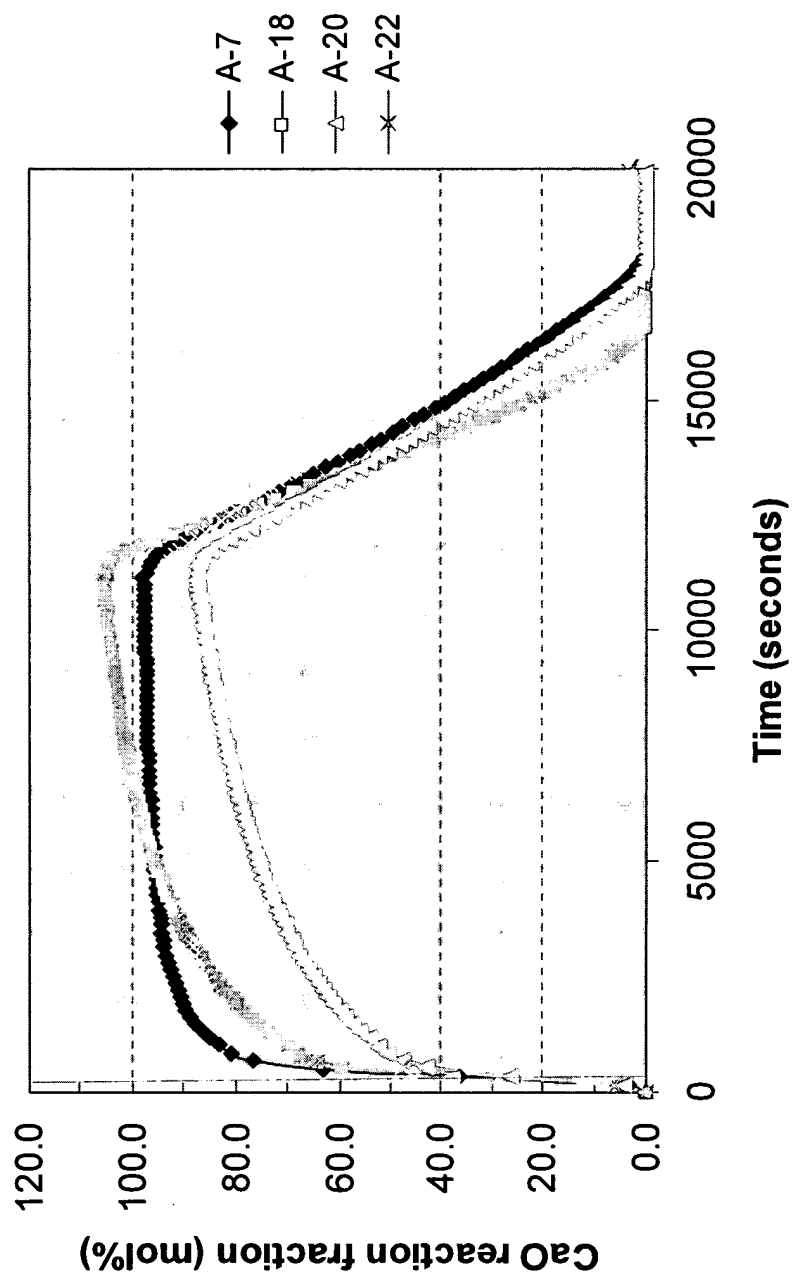


Fig. 33

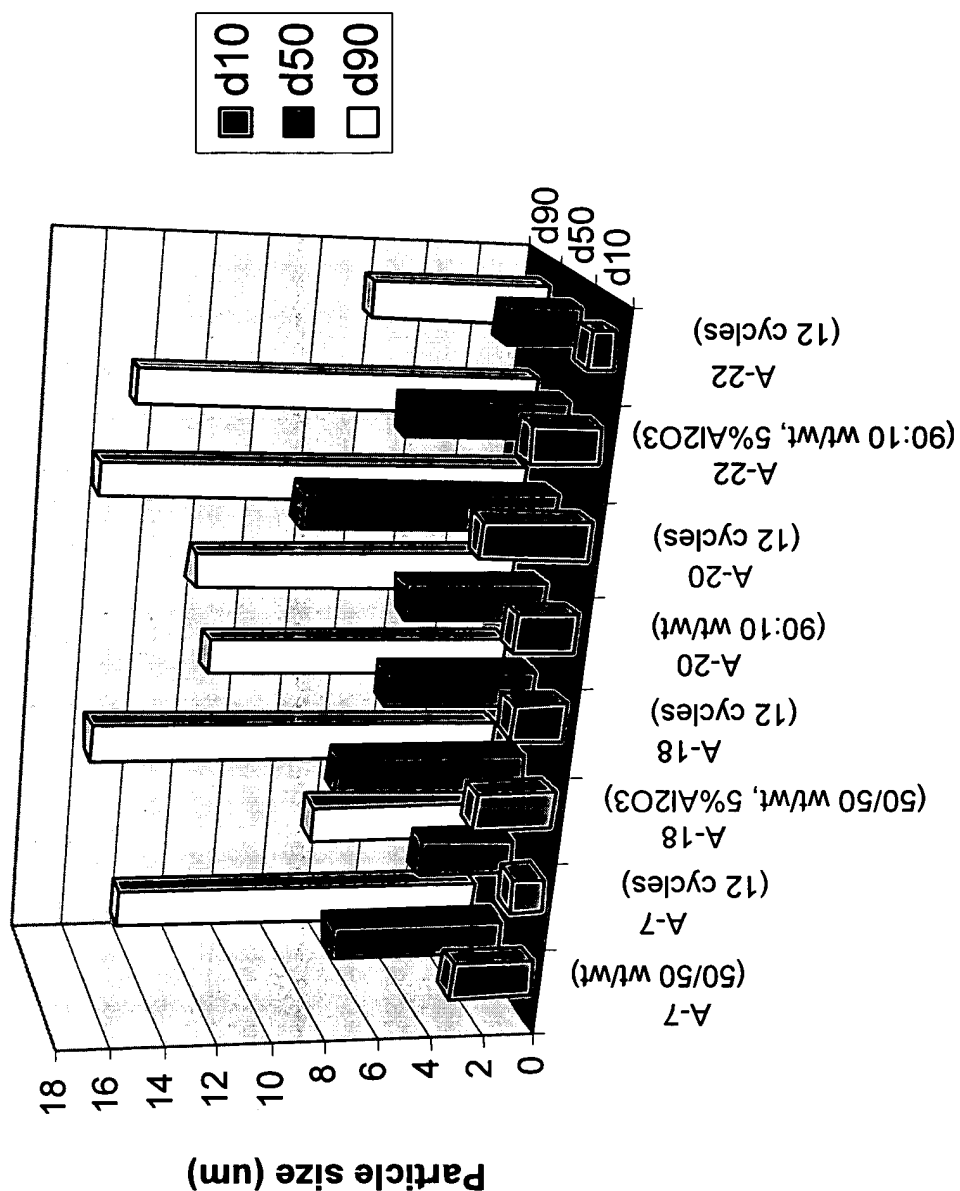


Fig. 34

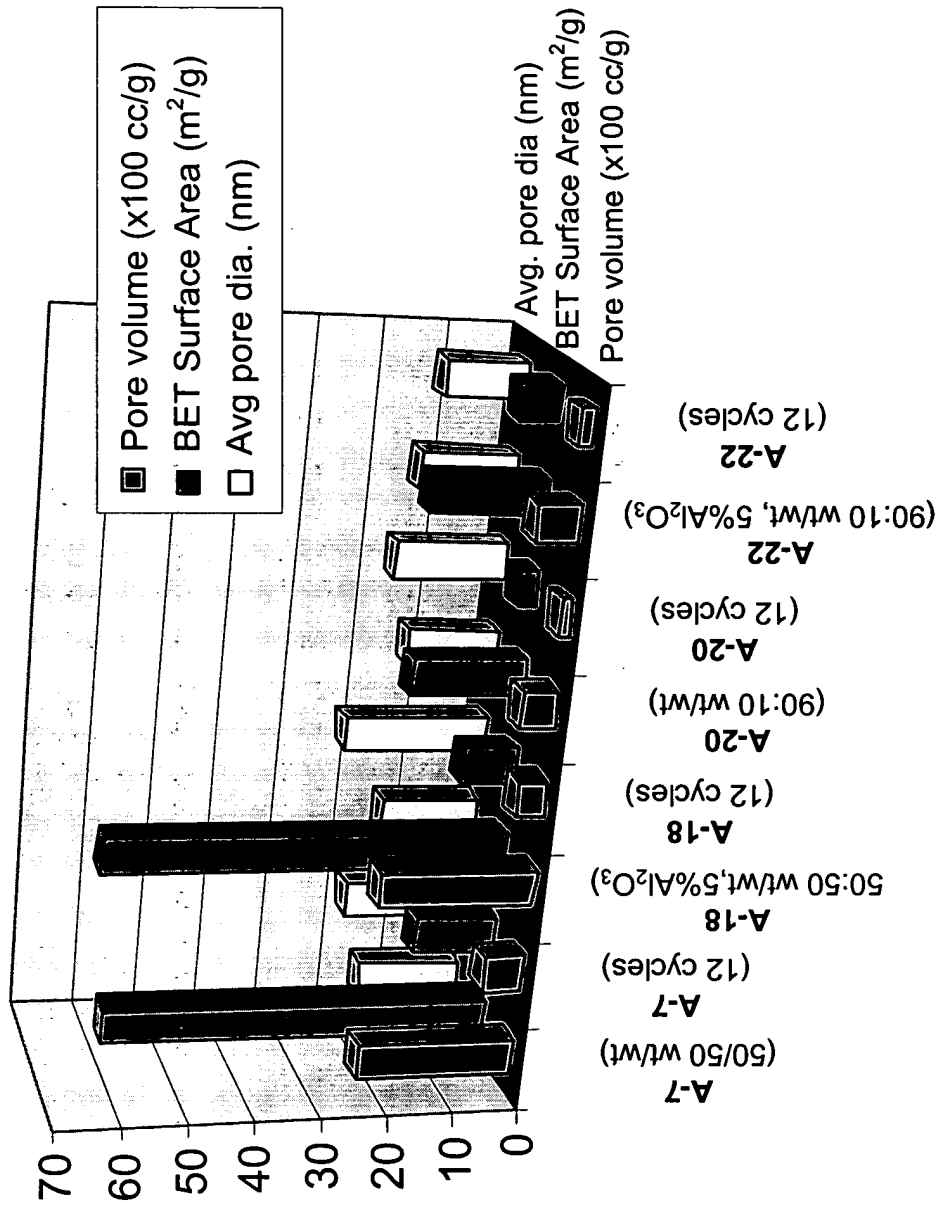


Fig. 35

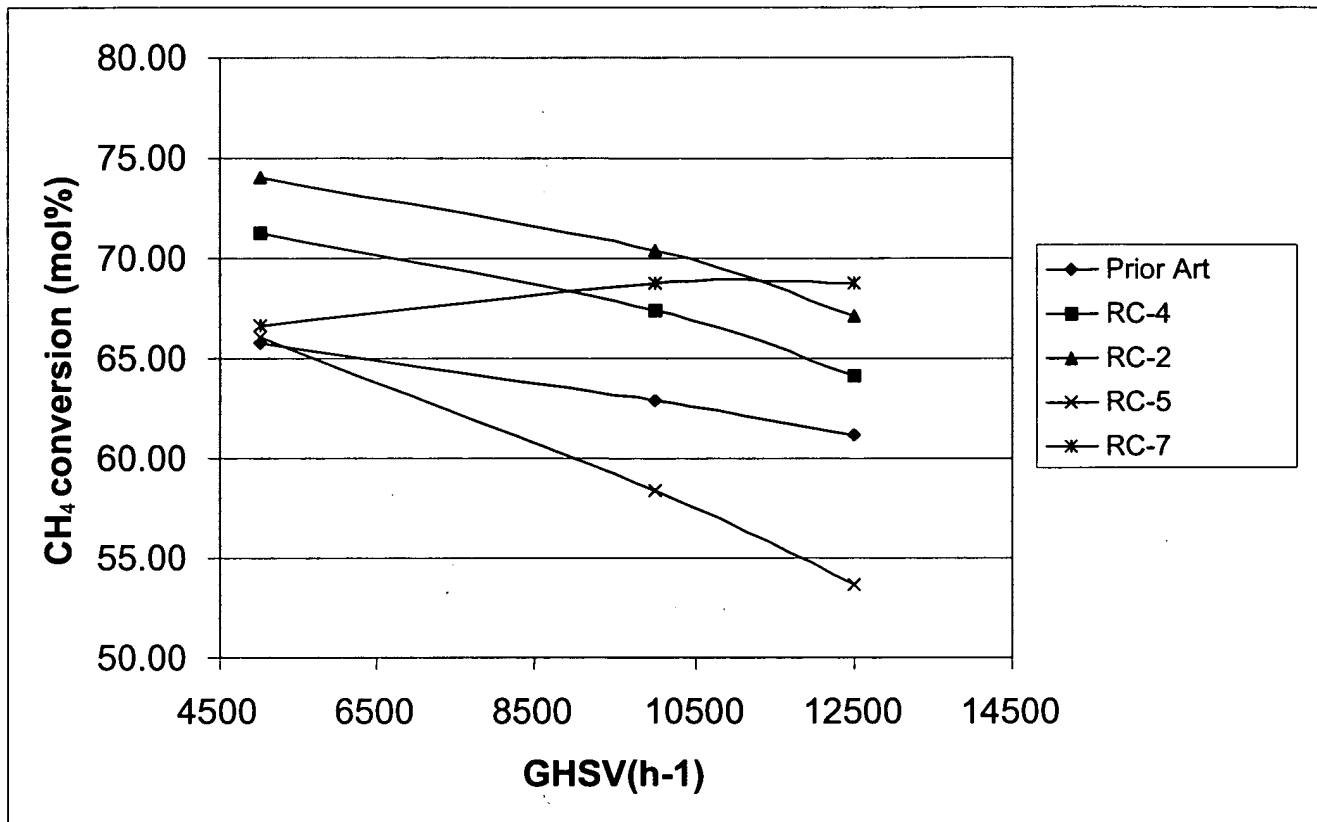


Fig. 36

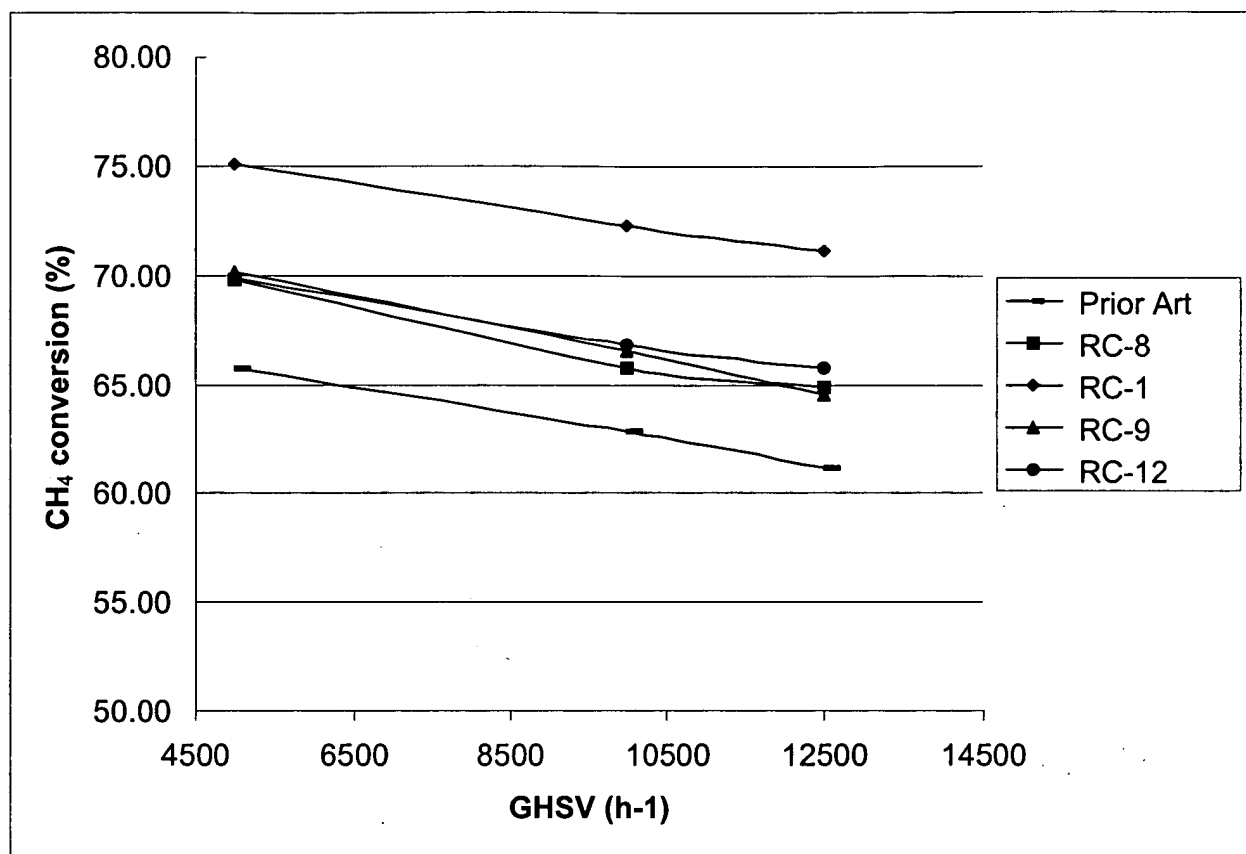


Fig. 37

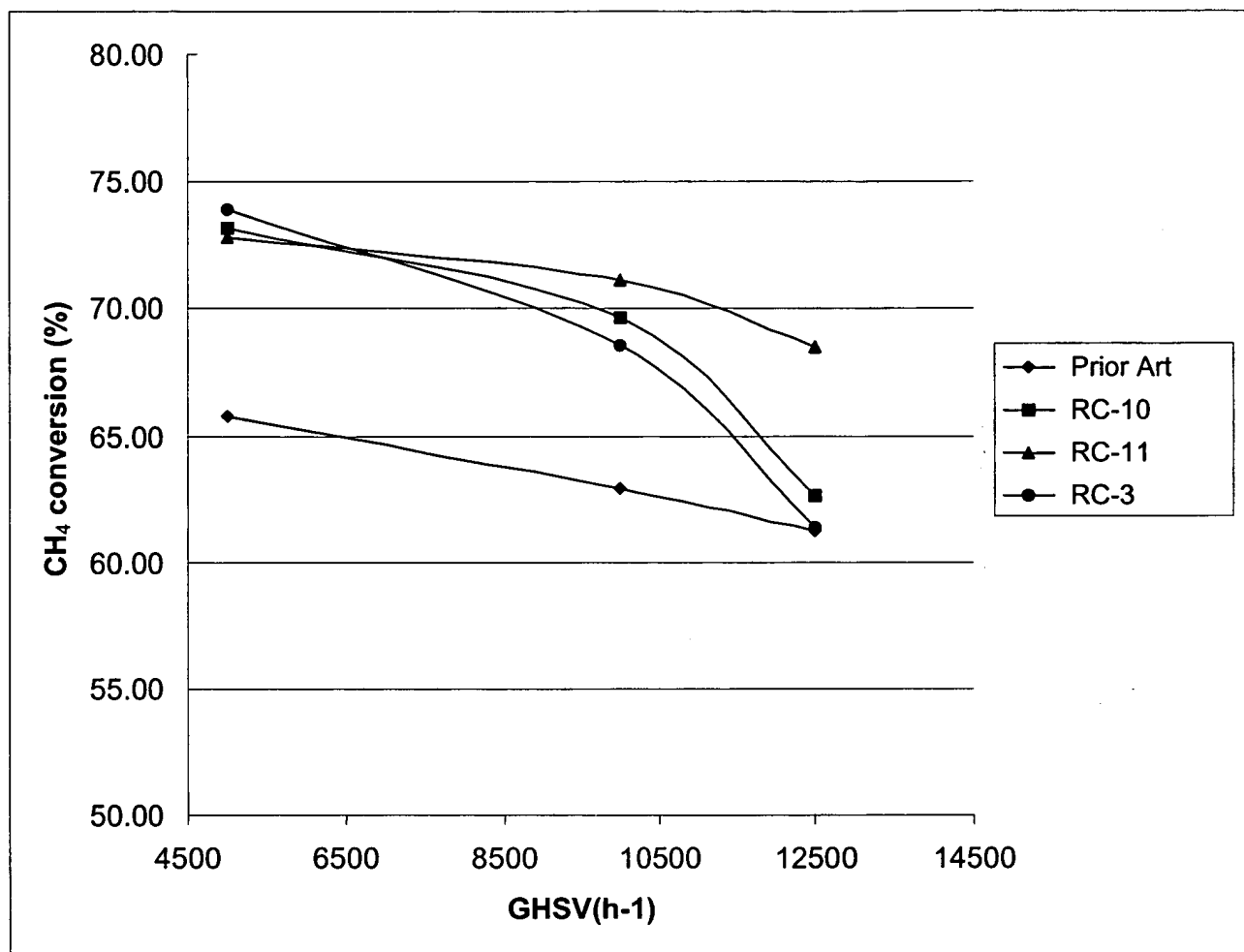


Fig. 38

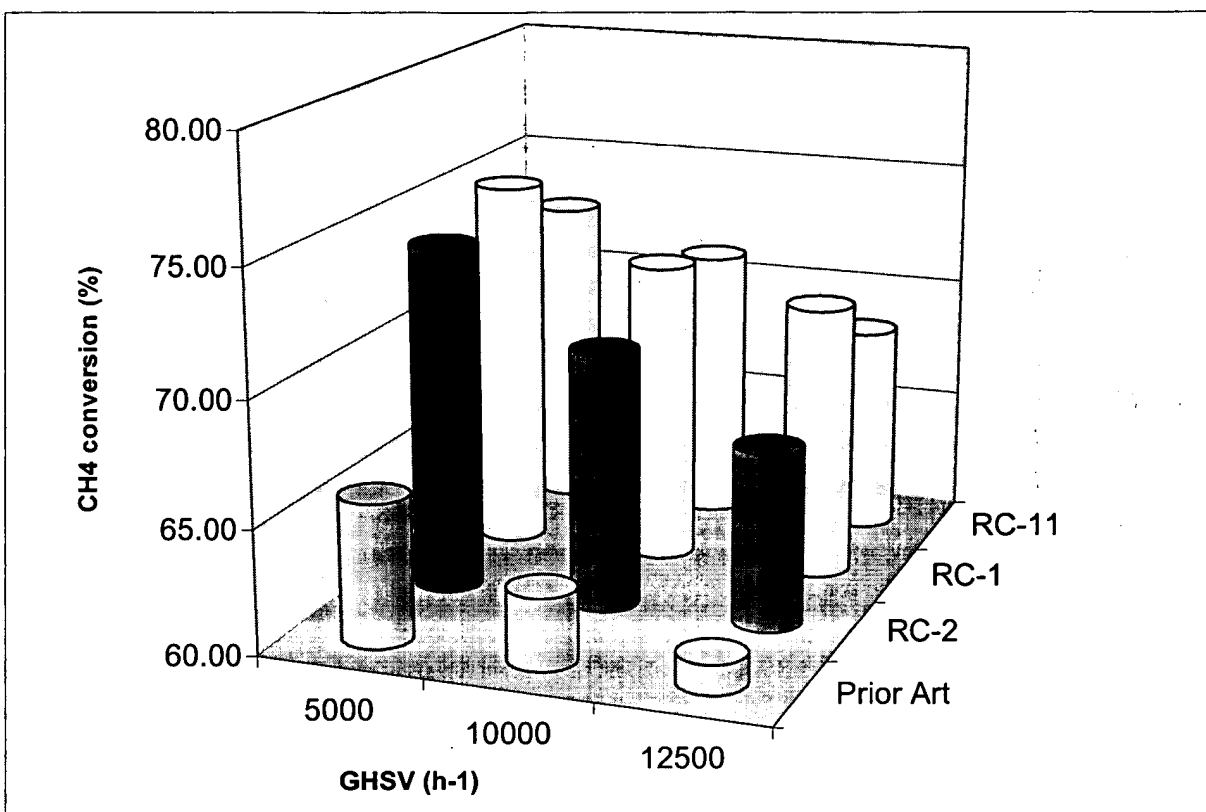


Fig. 39

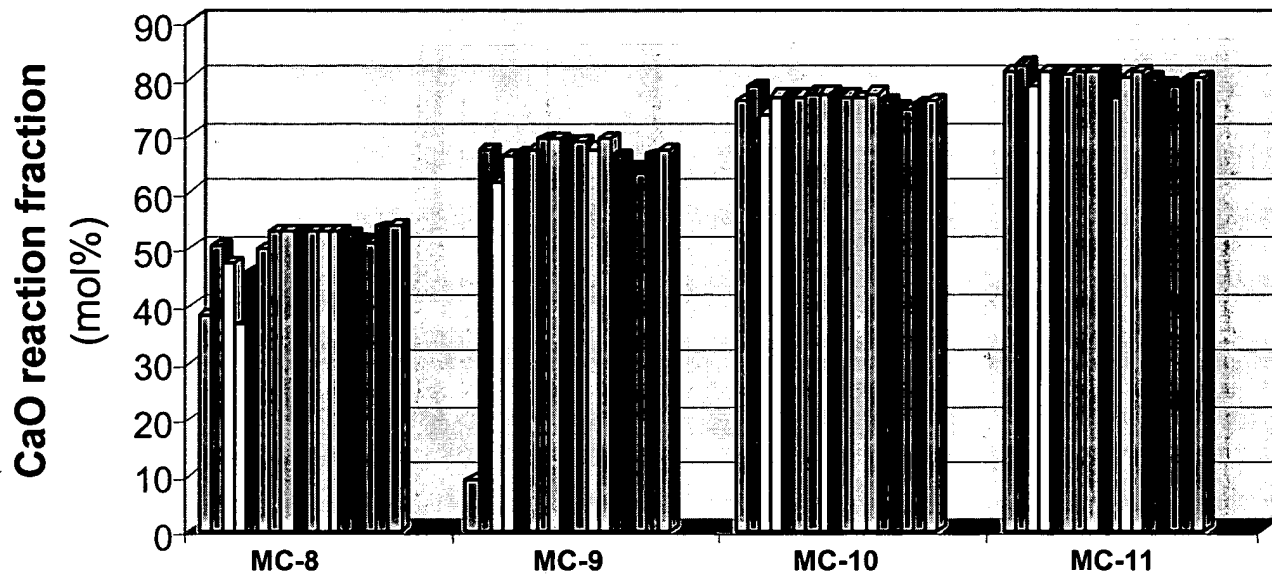


Fig. 40

Serial No.: Not Yet Assigned
 Title: Fuel Reformer Catalyst And Absorbent Materials
 Applicant: Hampden-Smith et al.
 Docket No.: 41890-01626
 Express Mail No.: EV338035435 US
 Attorney: David F. Dockery - Tel: (303) 338-0997

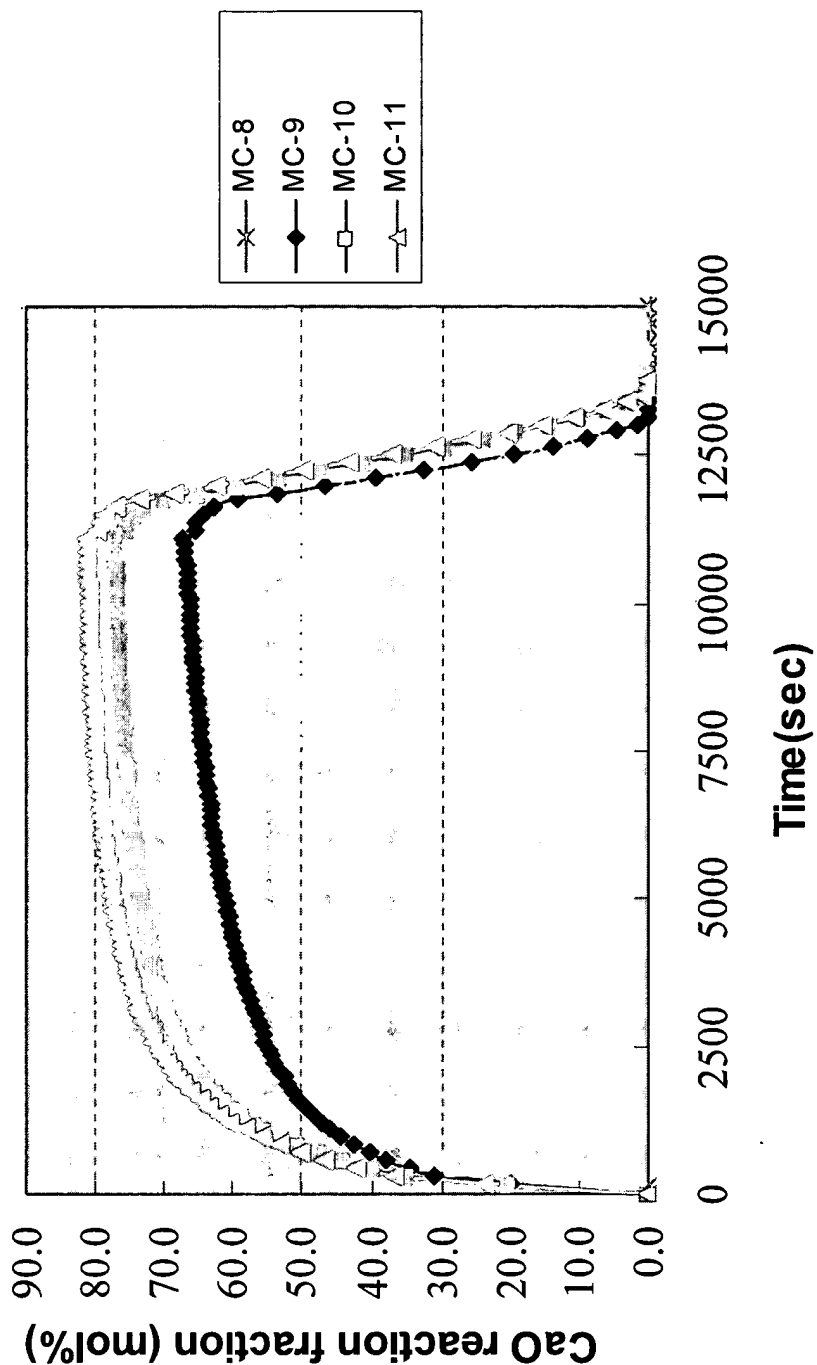


Fig. 41

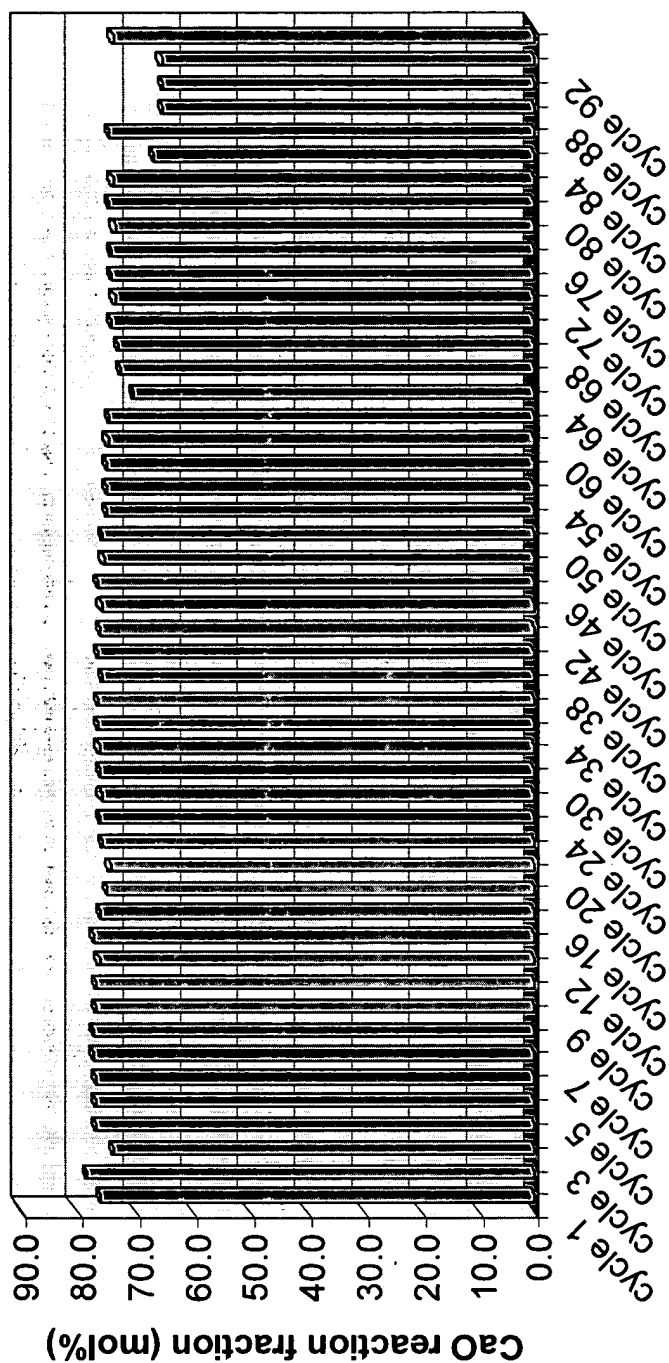


Fig. 42

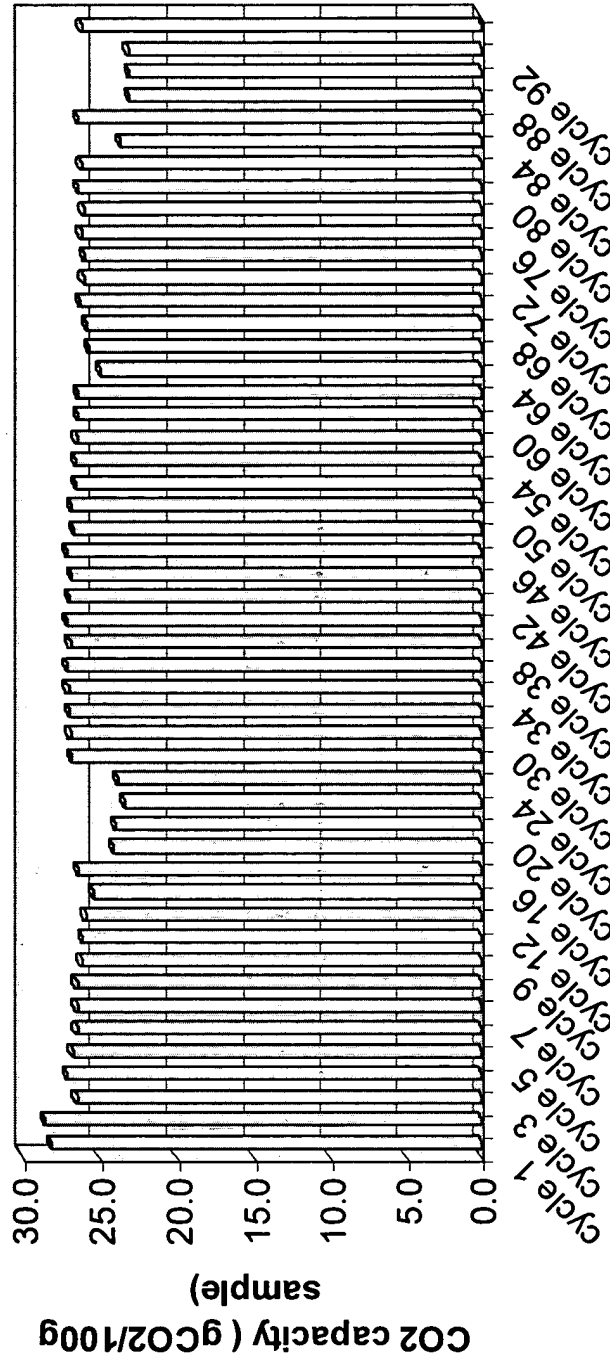


Fig. 43

Serial No.: Not Yet Assigned
 Title: Fuel Reformer Catalyst And Absorbent Materials
 Applicant: Hampden-Smith et al.
 Docket No.: 41890-01626
 Express Mail No.: EV338035435 US
 Attorney: David F. Dockery - Tel: (303) 338-0997

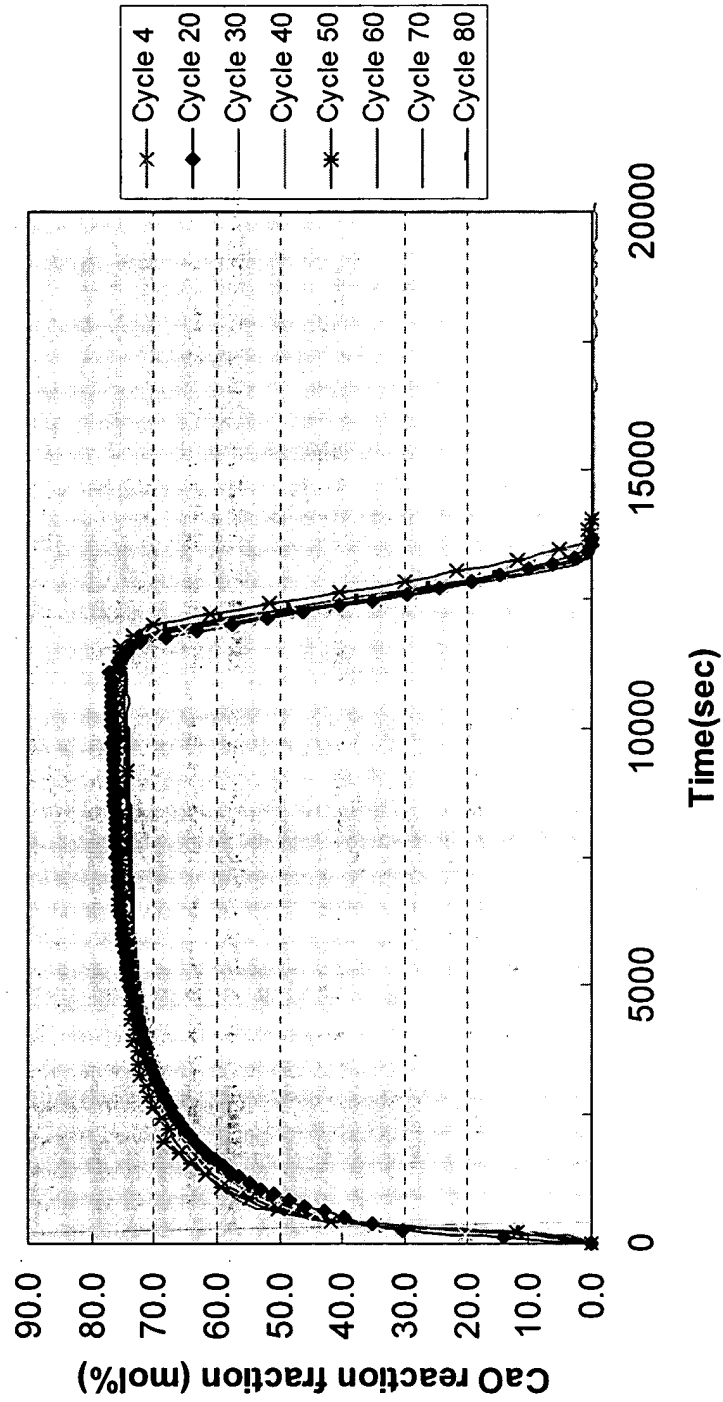


Fig. 44

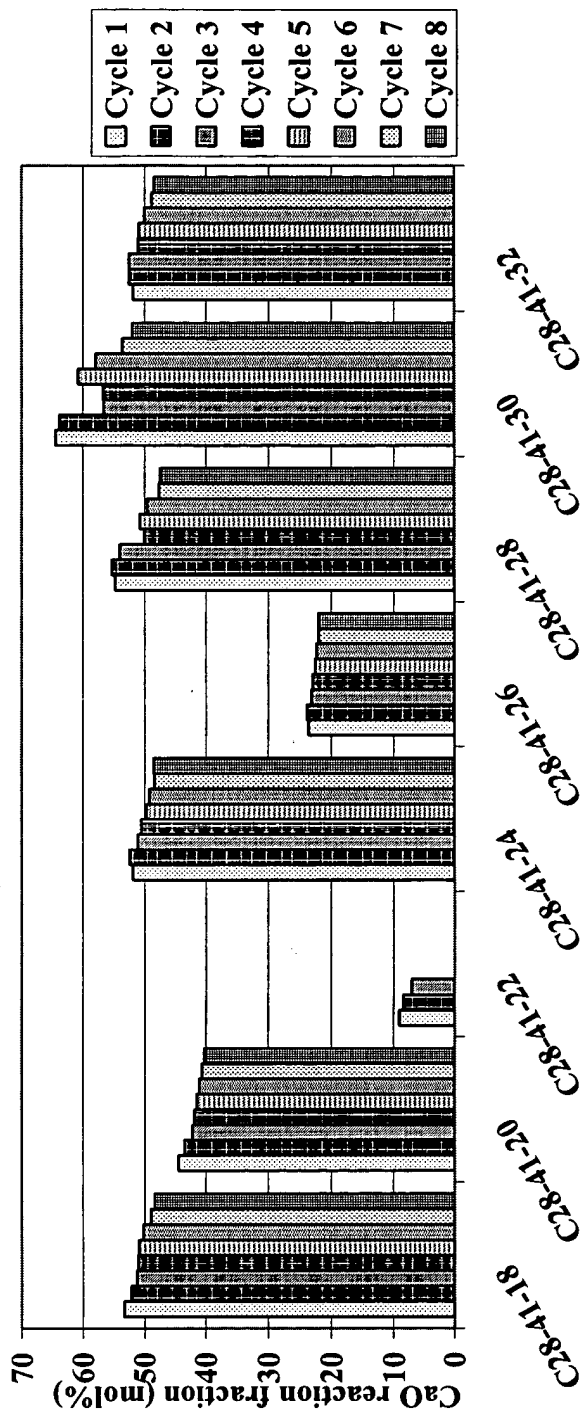


Fig. 45

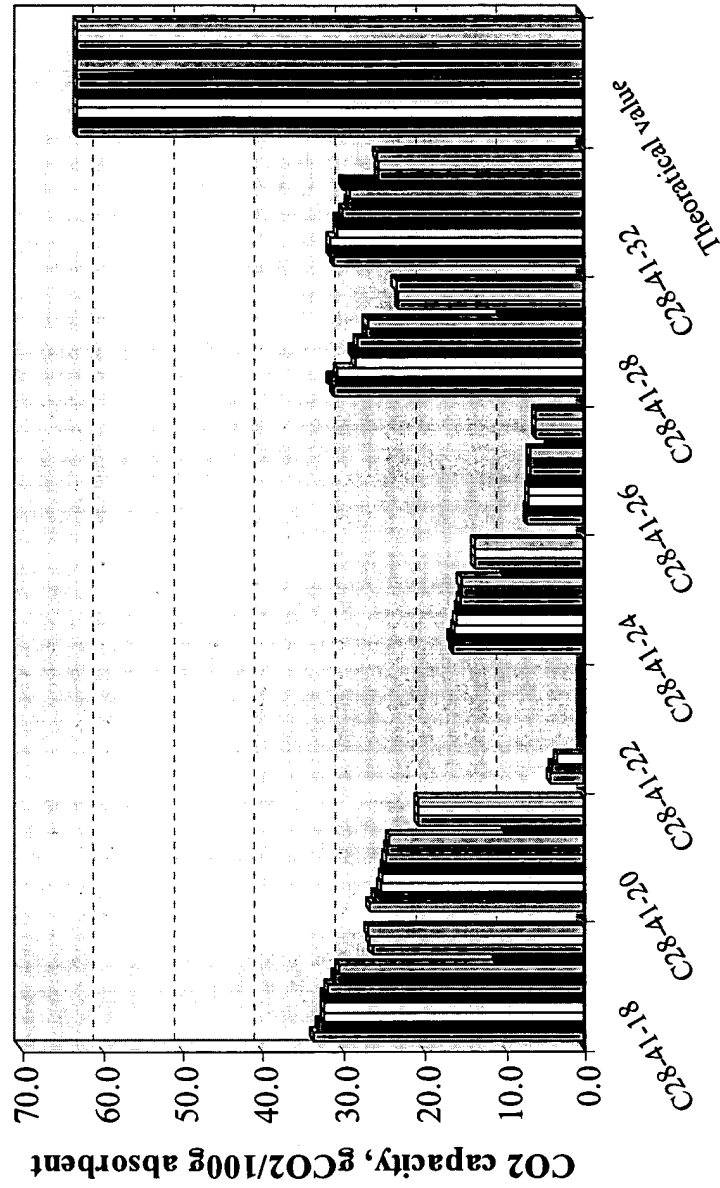


Fig. 46

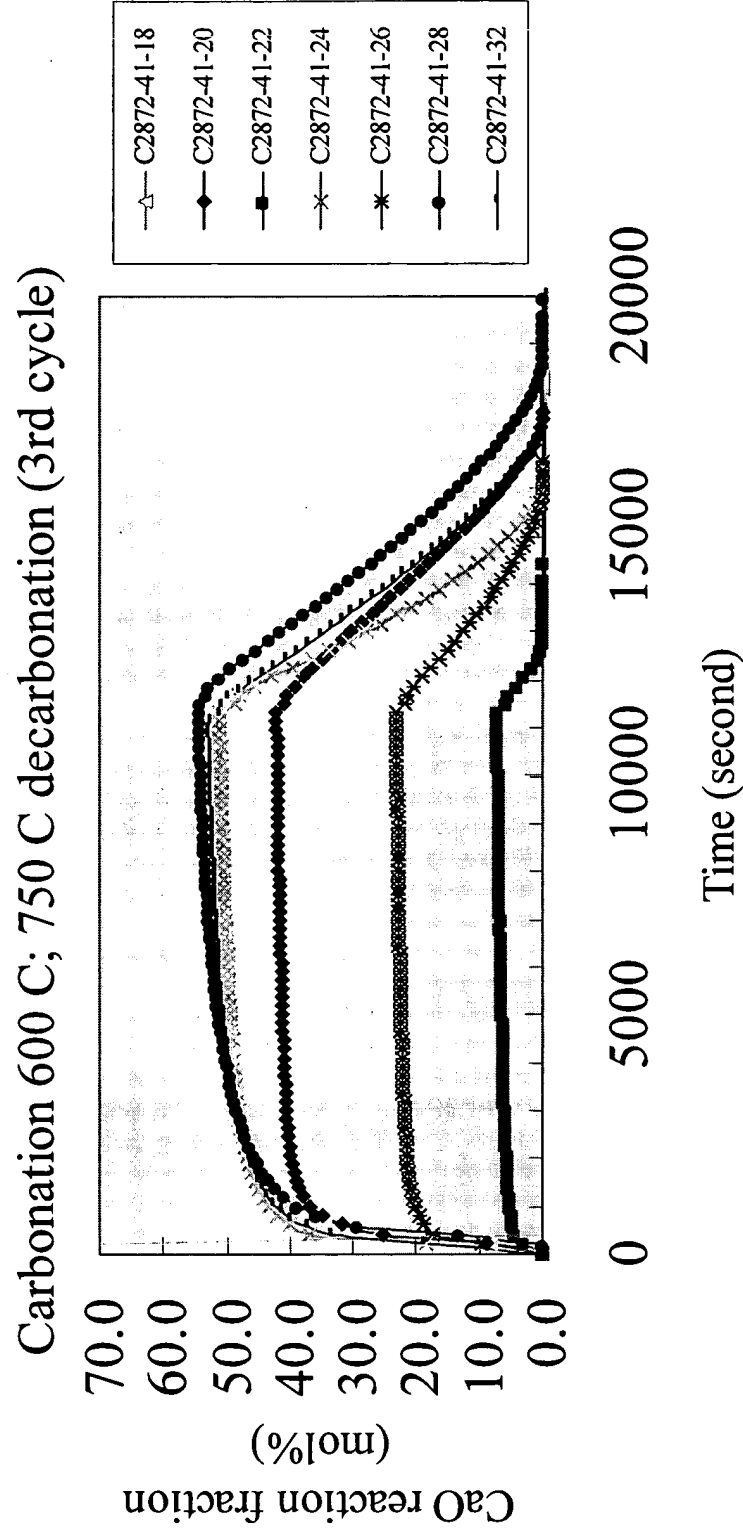


Fig. 47

C28-41-32: carbonation 600 C; 1~9th cycle decarbonation 750 C; the rest
800 C

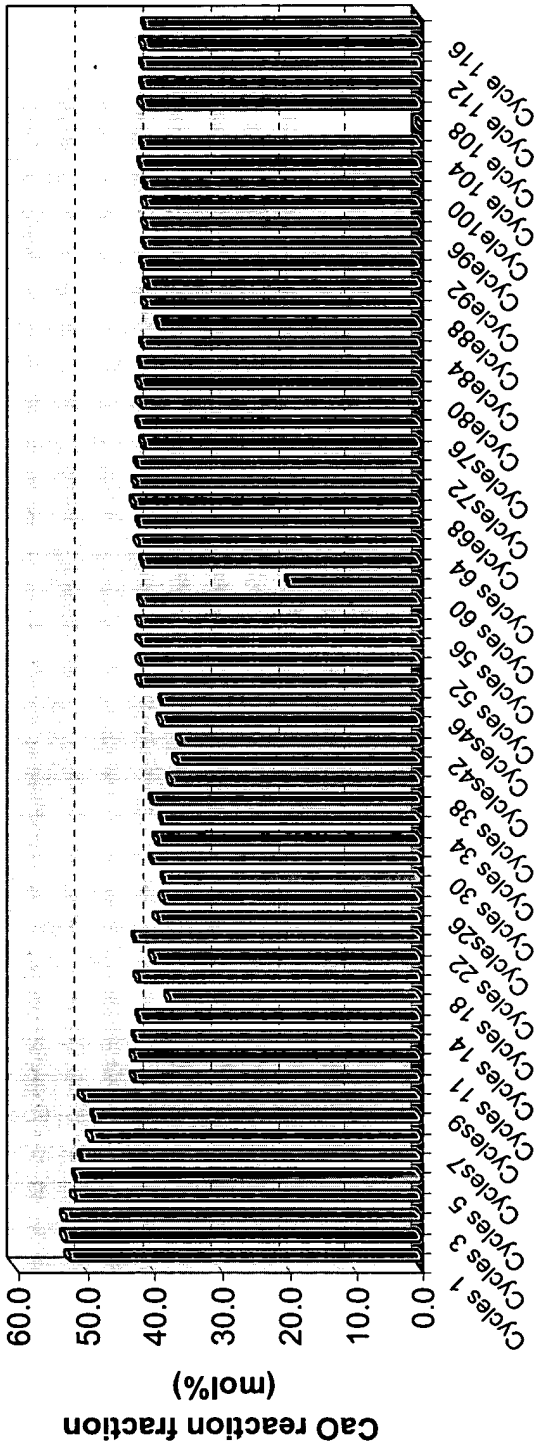


Fig. 48

C28-41-32: cabonation 600 C; 1~9th cycle decarbonation 750 C; the rest 800 C

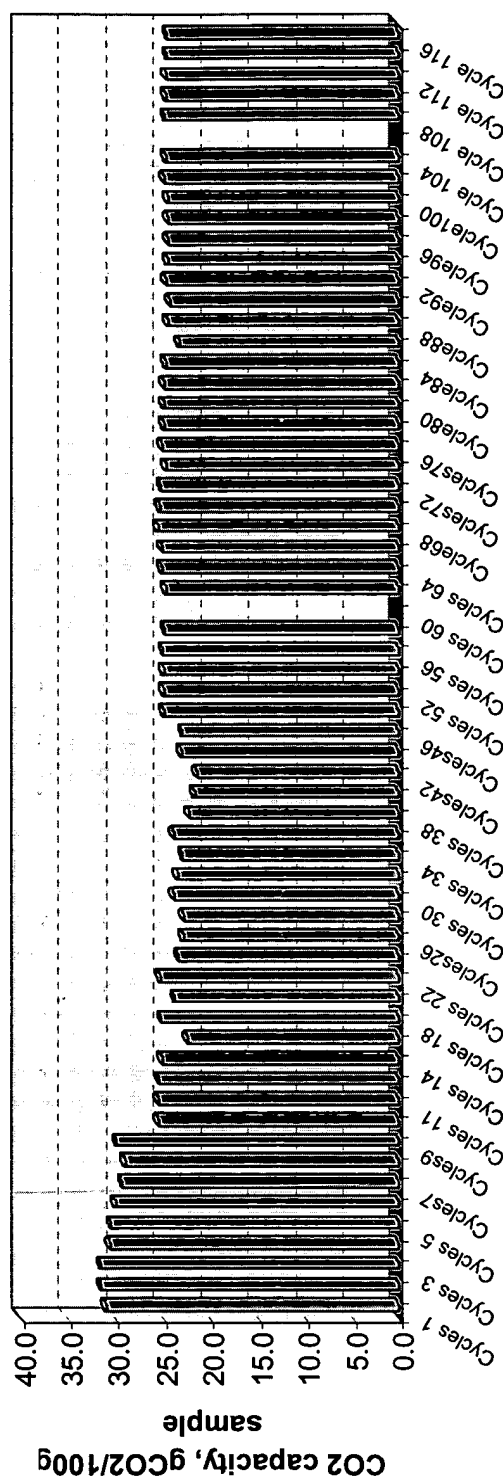


Fig. 49

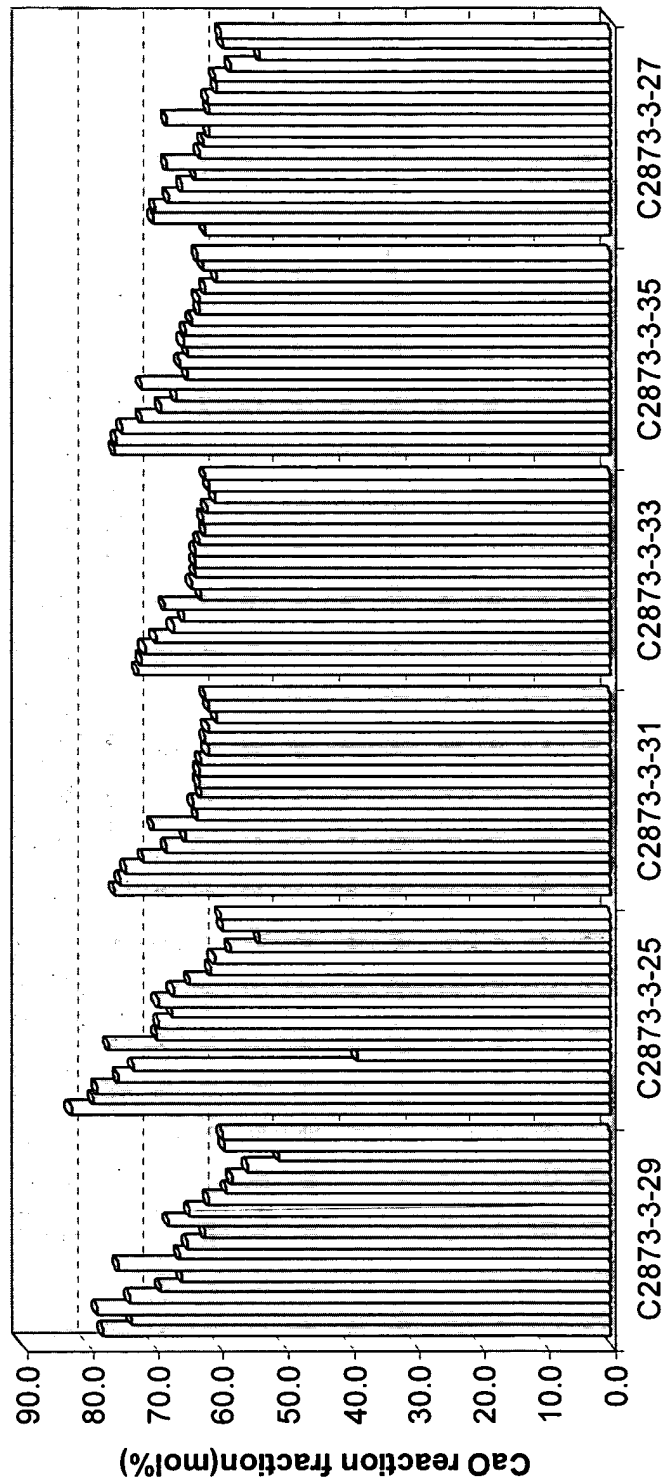


Fig. 50

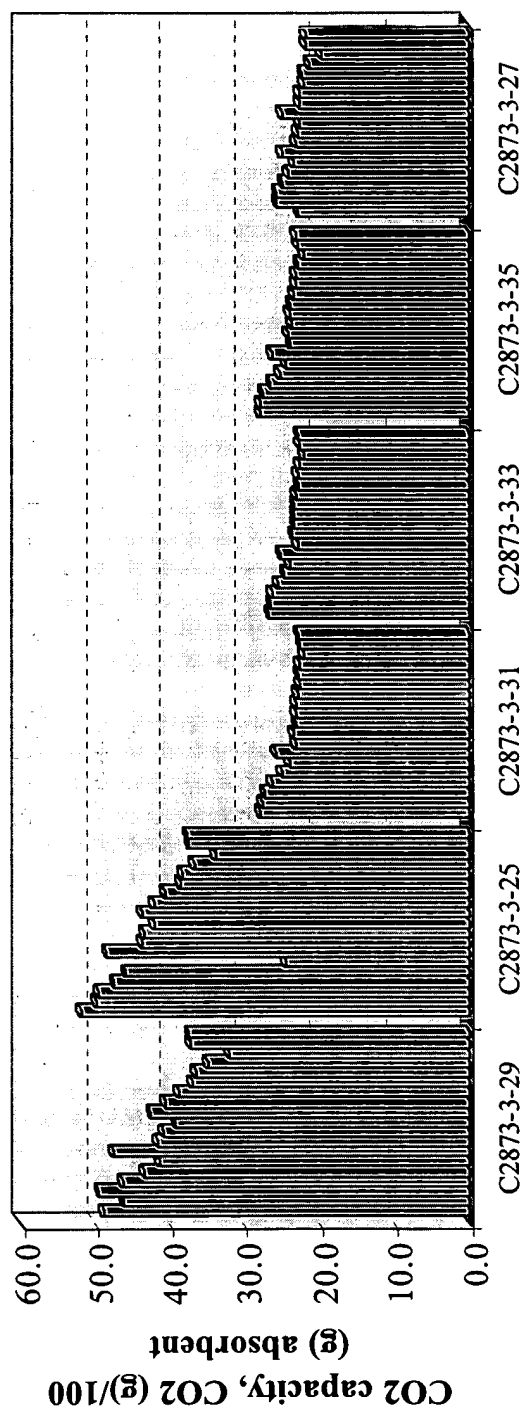


Fig. 51

C2872-3-27: CaO/MgO (1:1 molar)+ 20wt% Al₂O₃; carbonation 600 C; decarbonation 800 C

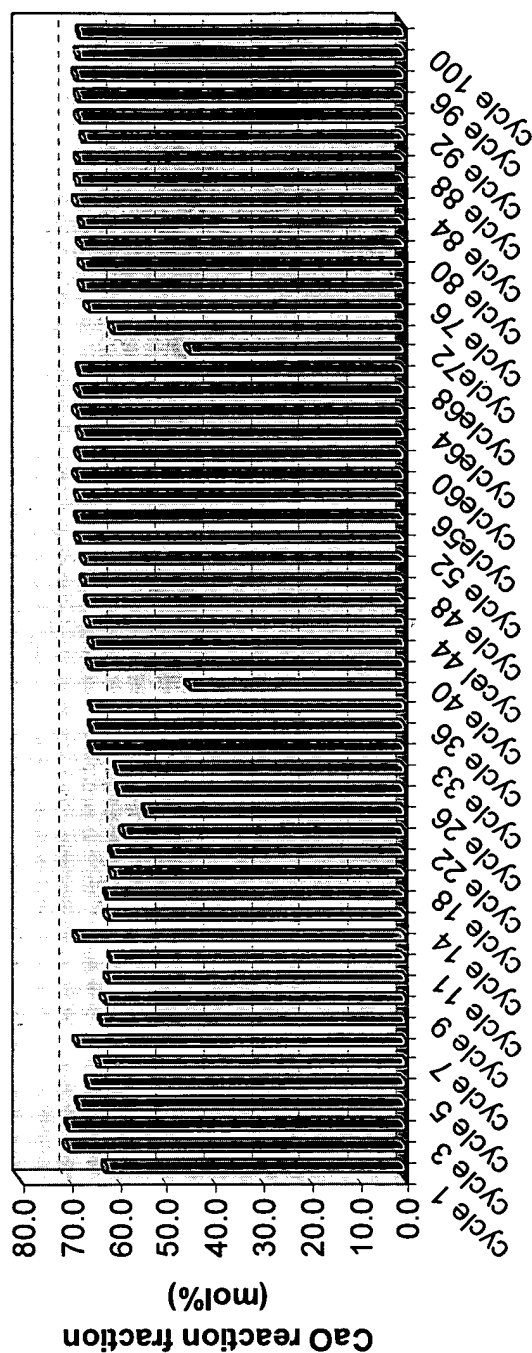


Fig. 52

**C2872-3-27: CaO/MgO (1:1 molar ratio)+ 20wt% Al₂O₃; carbonation 600 C;
 decarbonation 800 C**

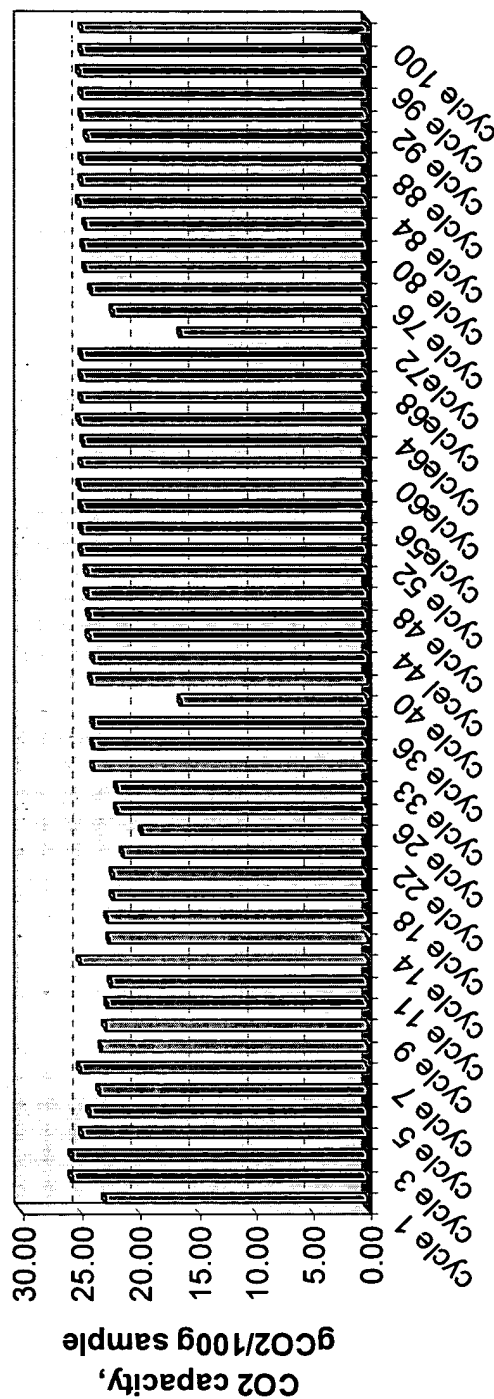


Fig. 53

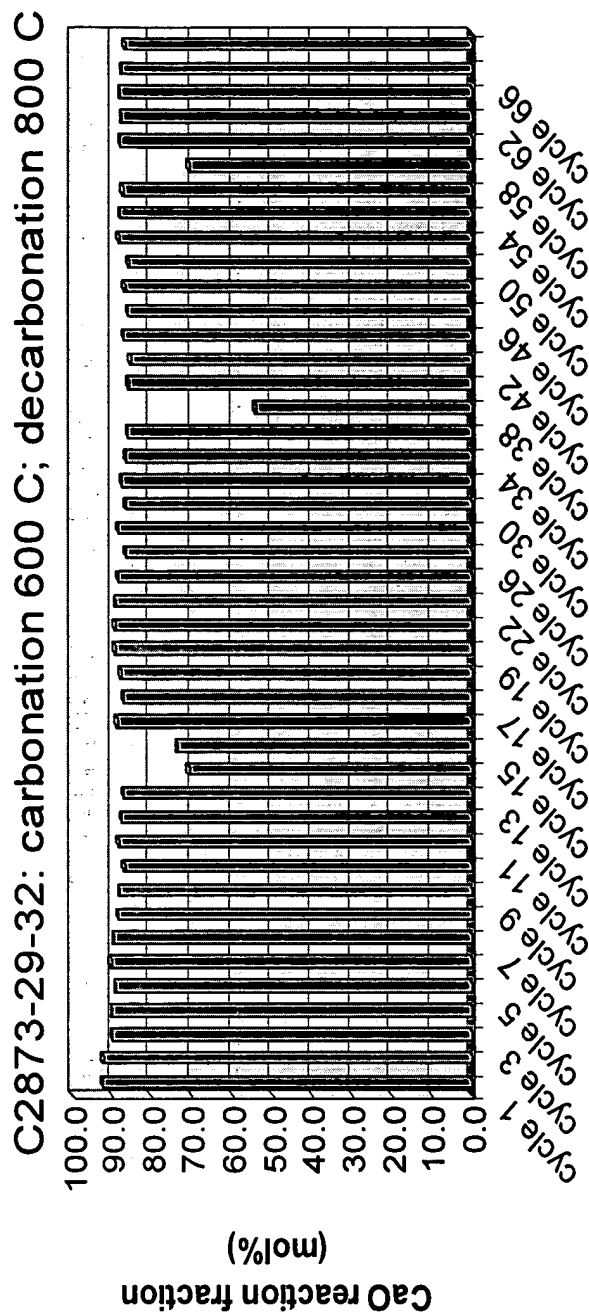


Fig. 54

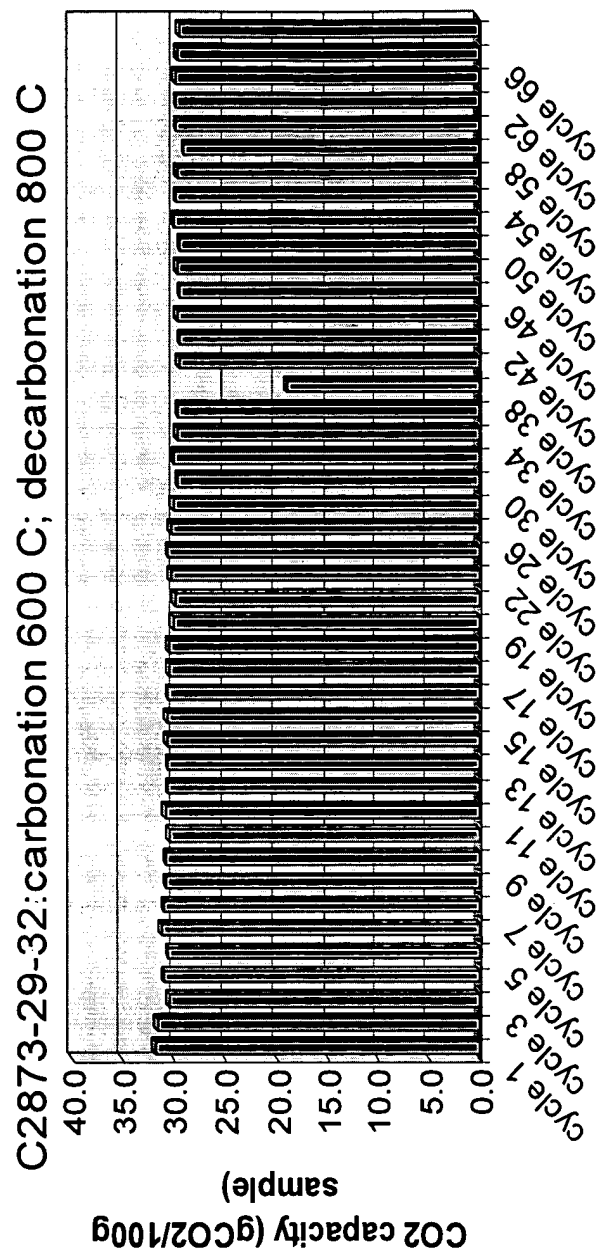


Fig. 55

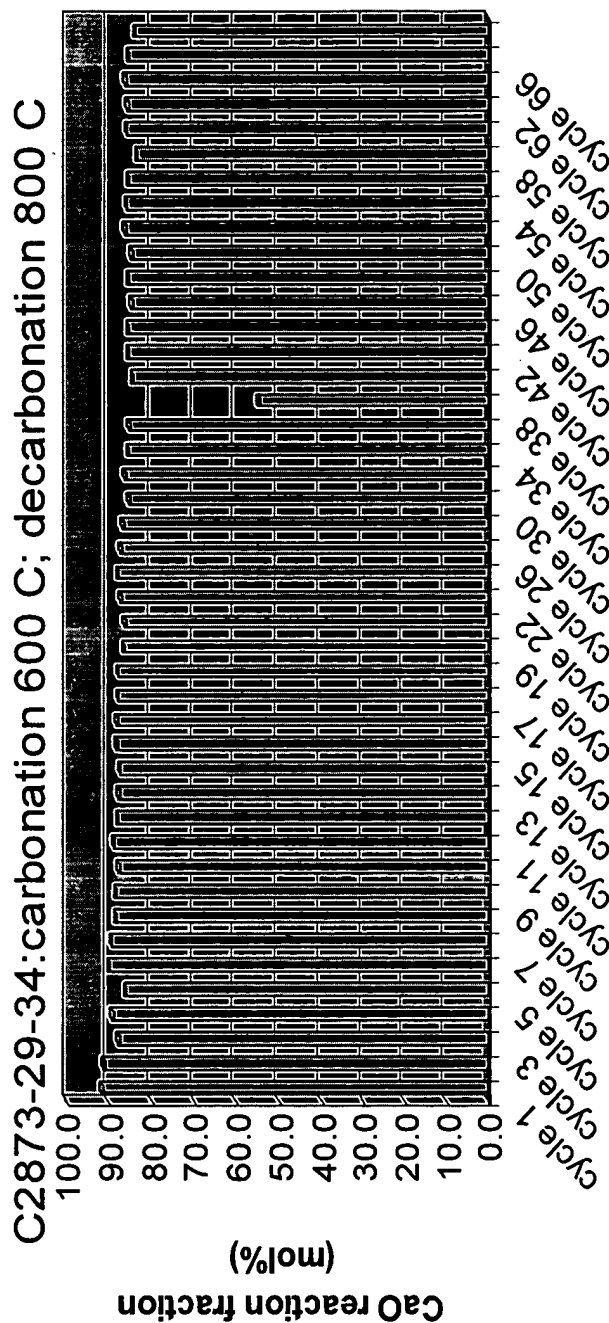


Fig. 56

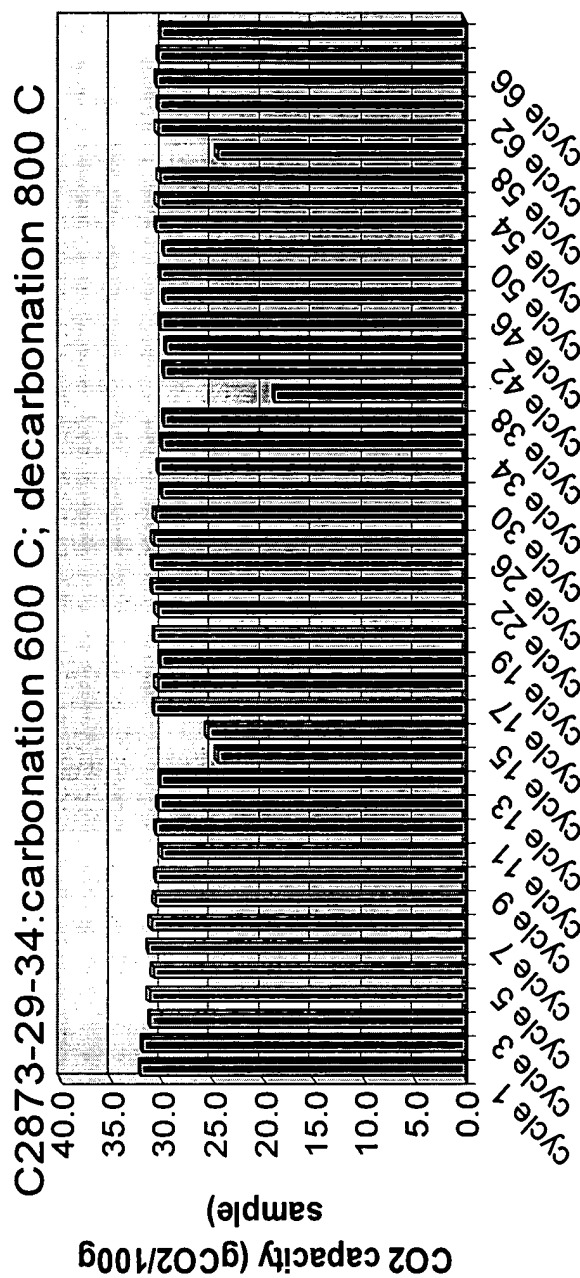


Fig. 57

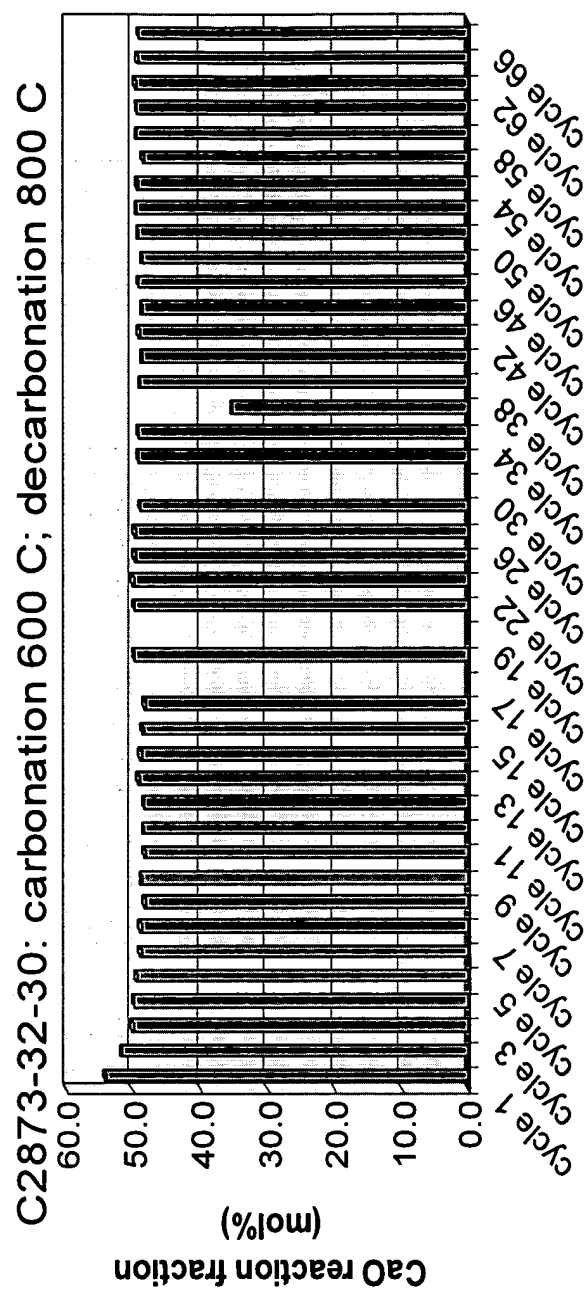


Fig. 58

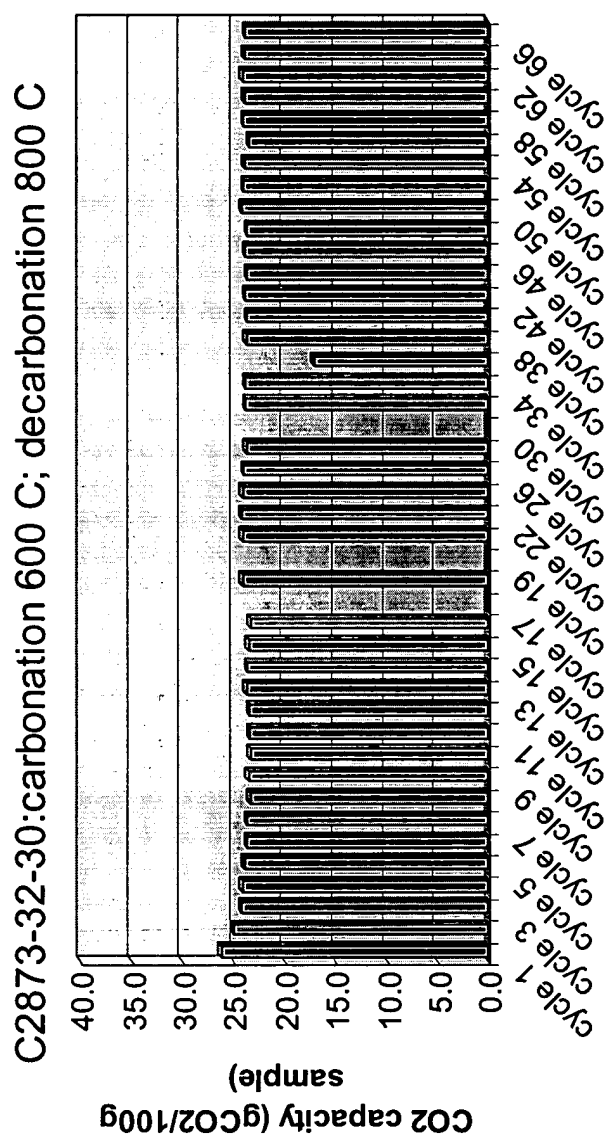


Fig. 59

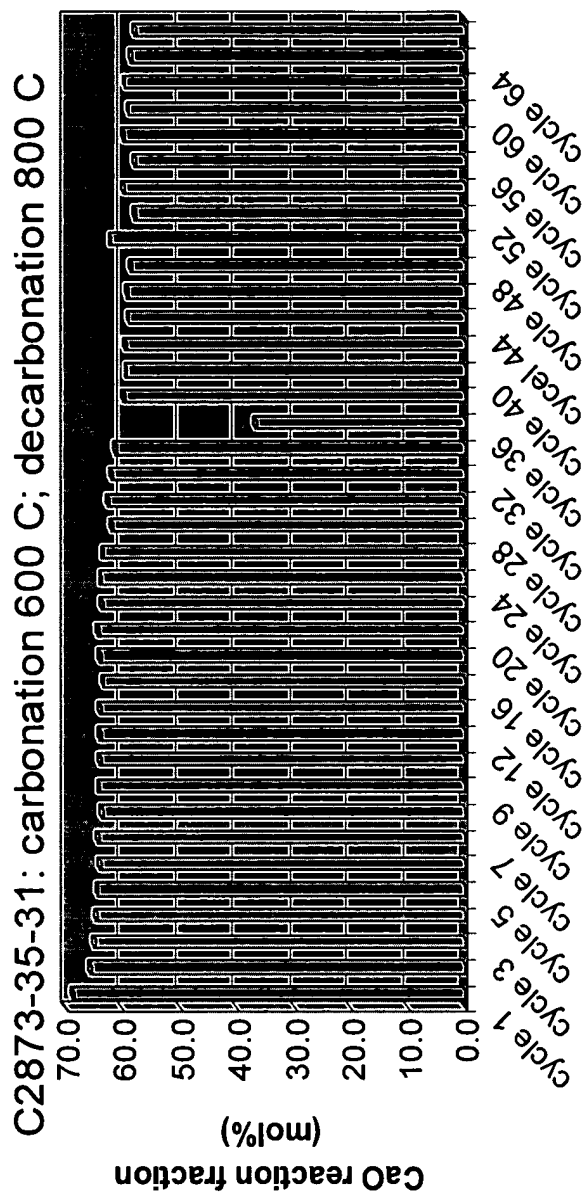


Fig. 60

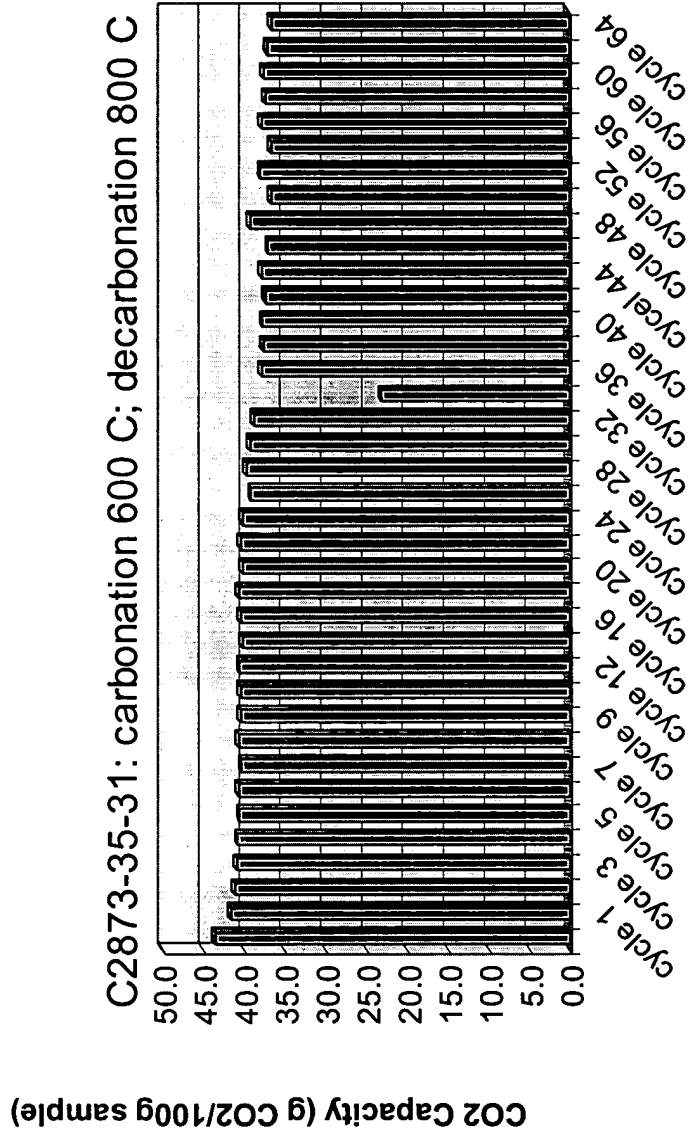


Fig. 61

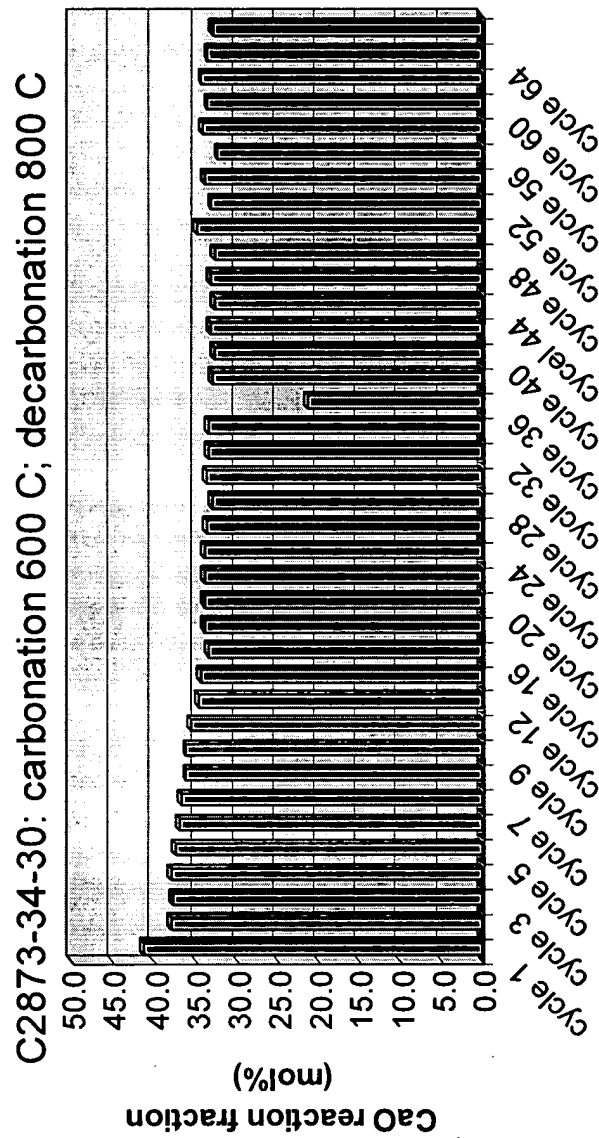


Fig. 62

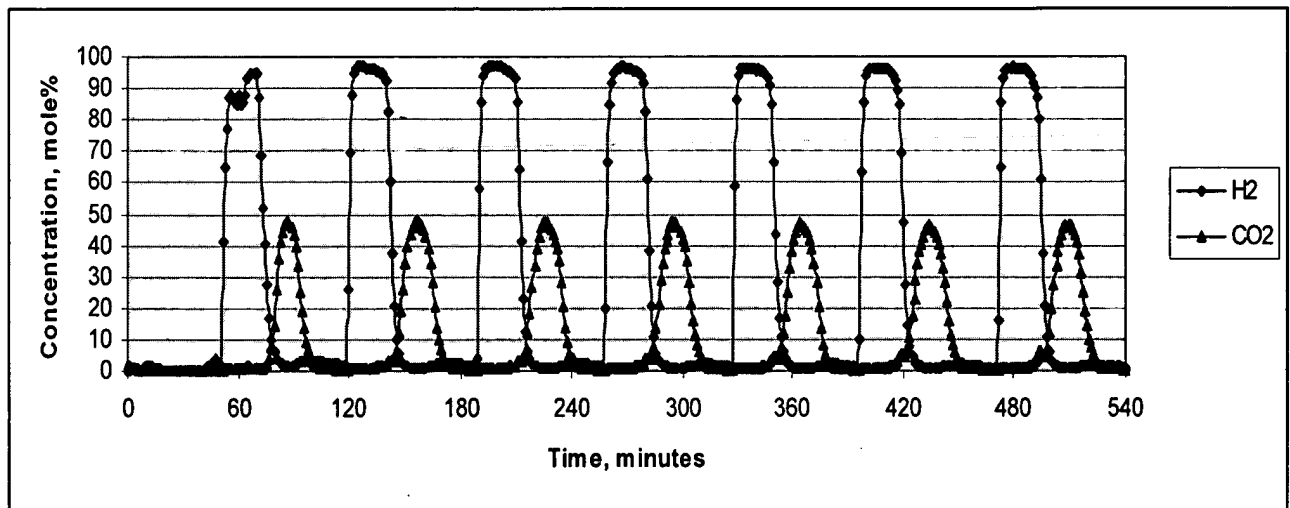


Fig. 63

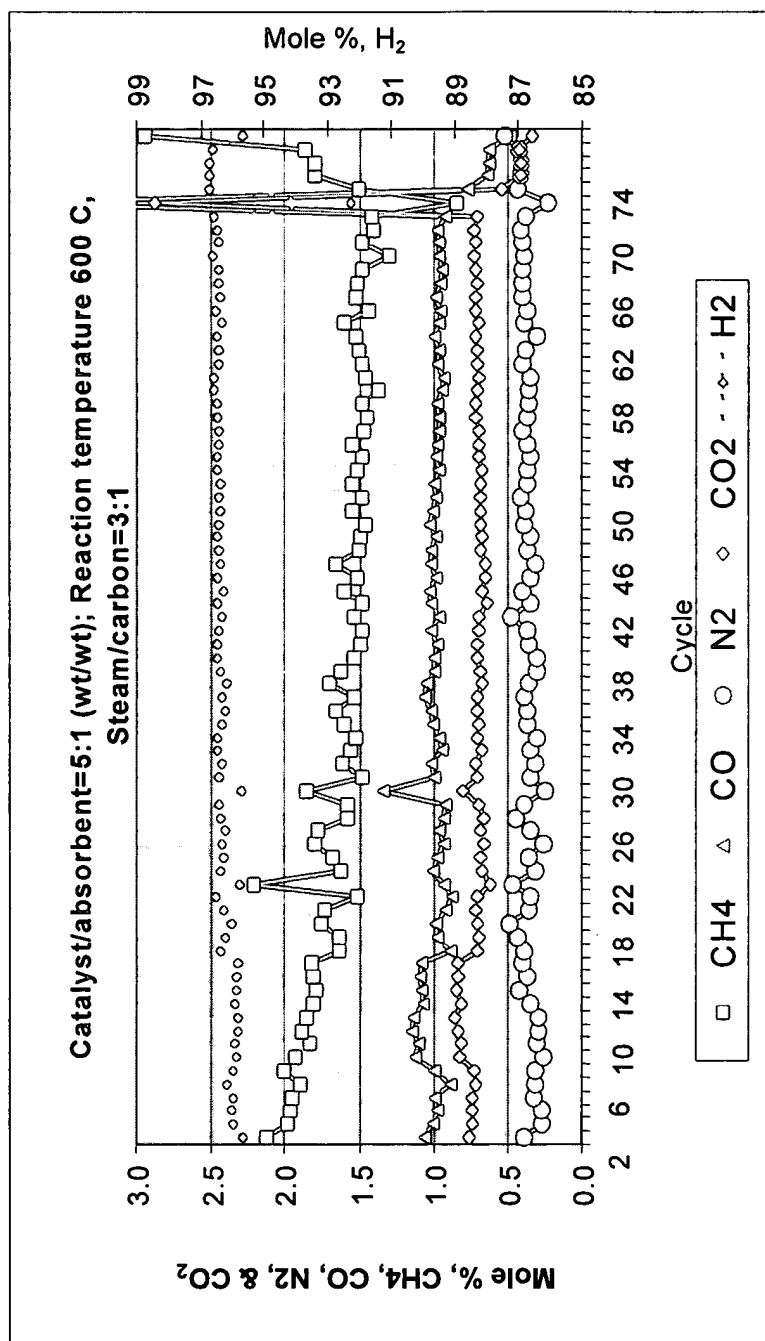


Fig. 64